

JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-A4 B/E/G/GI/EN



**COMPACT
disc
DIGITAL AUDIO**

Area suffix

B	U.K.
E	Continental Europe
G	Germany
GI	Italy
EN	Northern Europe

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1. Safety Precautions

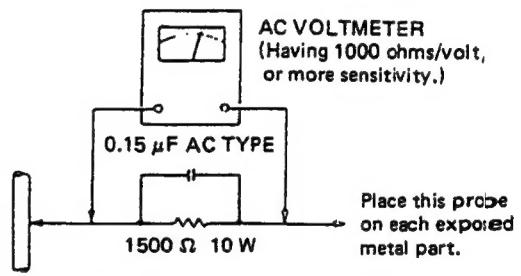
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by () on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

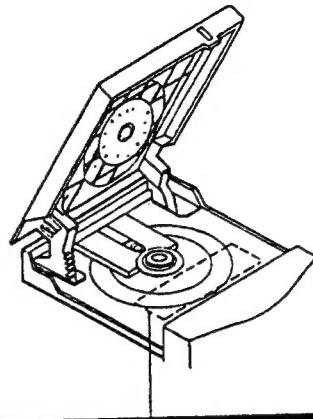
2. Safety Precaution about UX – A4

IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

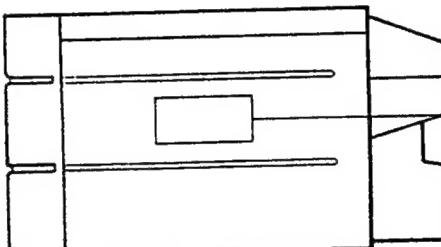
1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. CAUTION: The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

REPRODUCTION OF LABELS AND THEIR LOCATION



**ADVARSEL-Der vil udstråles osynlig laserstråling når apparatet åbnes og låsesmekanismen frigøres.
UNDGA AT BLIVE UDSET FOR LASERSTRÅLING.**

**DANGER-Invisible laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.**



CD player/tuner section

**CLASS 1
LASER PRODUCT**

Obs:
Apparaten innehåller laser-komponent av högre laserklass än klass 1.

IMPORTANT (in the United Kingdom)

Mains Supply (AC 240 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

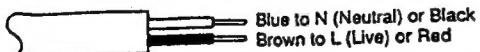
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

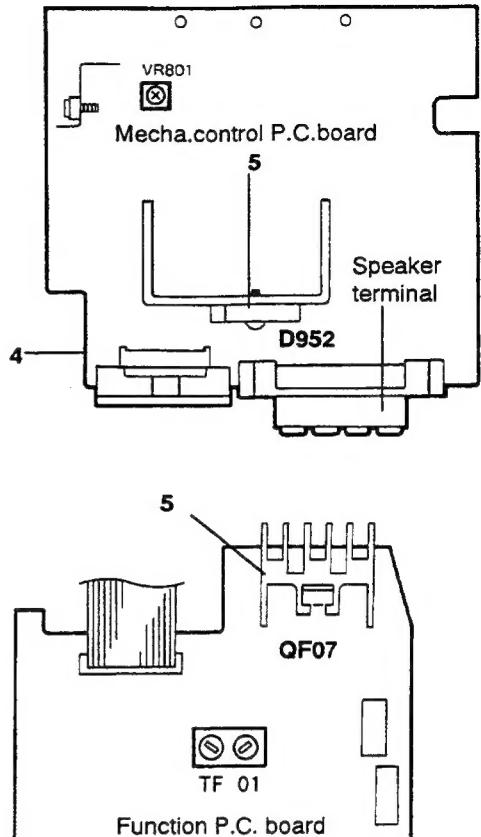
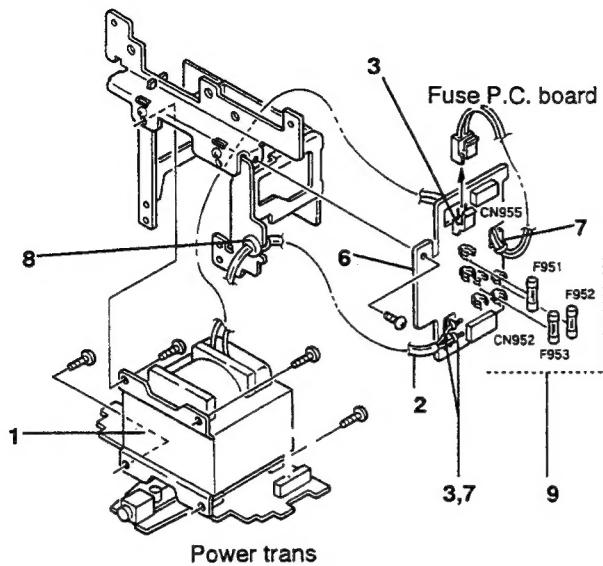
**WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR
MOISTURE.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



■ Important points for safety management

1. Check "VTP66J2 – 24D (UX – A4 E/G/GI/EN)", "VTP66T2 – 12D (UX – A4 B)" of power transformer and make sure that any bolt is not loosened.
2. Check the power source cord indication " \triangleleft VDE \triangleright (UX – A4E/G/GI/EN)", "SASEC: BS6500(UX – A4B)" of attachment plug "KP – 419C or SE – 1(UX – A4 E/G/GI/EN)", "KP – 610, 3A or SE – 5, 3A(UX – A4B)" and make sure that the cord is free from any defect(Damage).
3. ① Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
② The tab for winding the power cord must be twisted and soldered to prevent disconnection.
③ The lead of the power cord must be wound around the tab and soldered the spatial distance must be 3.2mm or more.

5. Since the following parts are exothermic, make sure that such parts will not come into contact with any electrolytic capacitor, wire and other parts.
ICA05, ICA06, IC502, IC701, D952, Q808, QF02, R867, R857, RF38 and heat sink are exothermic parts.
6. Any wire, etc. should be clamped or bonded as indicated in the above diagram so that such wire will not be positioned close to any exothermic parts.
7. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts moving part, hot part, or sharp edges.
8. By using the special tool , attach the power cord bushing to the position where "4N – 4" is marked.
9. Set and firmly fix the fuses F951,F952 and F953 respectively to T400mA,T6.3AandT6.3mA afterconfirmingthe respectively positions.

3. Features

1. Disc-size micro component system consisting of 4 units
2. Active Hyper-Bass circuit for low-frequency sound reproduction
3. Sound mode control (Beat, Vocal, Instrument)
4. One touch operation (COMPU PLAY)
 - When a source button (CD, tape, or tuner) is pressed, the unit's power is turned on and initiates the playback even when the power is set to STANDBY.
5. 35-key remote control unit opens and closes the motor-driven CD door, and operates the usual CD, cassette deck and tuner functions
 - The remote control operates the power ON/OFF switching, volume control, bass/treble control, sound mode control, Active Hyper-Bass ON/OFF switching, and a variety of editing functions.
6. Multi-function CD player
 - Capable of auto-edit recording and programmed play.

7. U-Turn auto-reverse full-logic mechanism with Dolby® B NR
 - Auto tape select mechanism.
 - Metal (type IV) and CrO₂ (type II) tape can be played back for superior tone quality.
 - CrO₂ (type II) tape recording capability
 - Music scan** in forward or reverse direction
 8. 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM (MW/LW)) preset capability
 - Seek/manual tuning.
 - Auto preset tuning
 9. Timer/Clock function
 - Timer on/off with preset volume function.
 - Wake-up volume setting with 50 different levels.
 - Sleep timer can be set for up to 120 minutes.
- * Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol  are trade-marks of Dolby Laboratories Licensing Corporation.
- ** Under license of Staar S.A. Brussels, Belgium.

4. Specifications

Compact disc player section

Type	: Compact disc player
Signal detection	: Non-contact optical pickup
Number of channels	: 2 channels
Frequency range	: 20 Hz - 20,000 Hz
Dynamic range	: 86 dB
Signal-to-noise ratio	: 86 dB
Total harmonic distortion	: 0.03 %
Wow & flutter	: Less than measurable limit

Radio section

Frequency ranges	: FM 87.5 - 108 MHz AM: (MW) 522 - 1,629 kHz (LW) 144 - 288 kHz
Antennas	: Loop antenna for AM (MW/LW) External antenna terminal for FM (75 ohms)

Tape deck section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor (capstan x 1, reel x 1)
Heads	: Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head)
Frequency response	: 50 - 15,000 Hz (with metal tape)
Wow and flutter	: 0.09 % (WRMS)
Fast wind time	: Approx. 120 sec (C-60 cassette)

Speaker section (each unit)

Speaker	: 12 cm x 1 (Woofer) 5 cm x 1 (Tweeter)
Dimensions	: 160(W) x 251(H) x 203(D) mm
Weight	: Approx. 2.2 kg
General	
Power output	: Max. 40 W (20 W + 20 W) at 4 Ω 28 W (14 W + 14 W) at 4 Ω (10 % THD)
Output jacks	: Speaker x 2 (matching impedance 4 Ω - 16 Ω) Headphones (0 - 30 mW/32 Ω) (matching impedance 16 Ω - 1 kΩ)

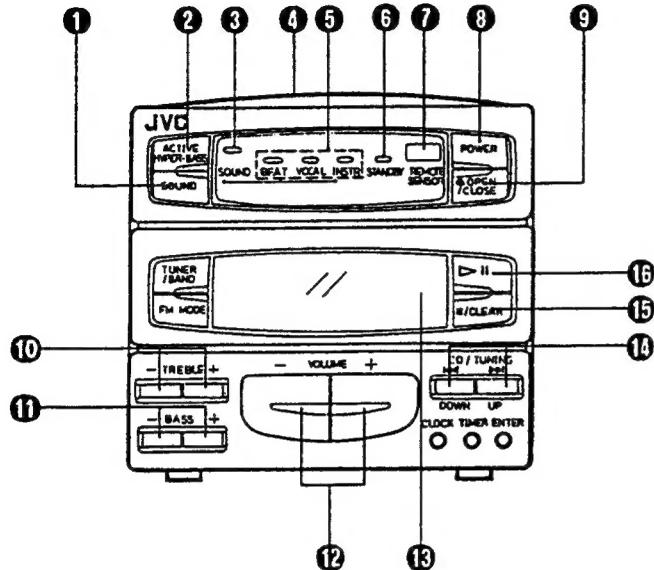
Power supply	: AC 240 V, 50/60 Hz, (UX-A4B) AC 230 V, 50/60 Hz, (UX-A4E/GI/EN) Ext. DC 12 V (car battery via optional CA-R120E car adapter)
Power consumption	: 66 W (with POWER SW ON) 4 W (with POWER SW STANDBY)
Dimensions	: 458.5(W) x 255(H) x 208(D) mm including knobs
Weight	: Approx. 8.9 kg
Accessories provided	: Remote control unit (RM-RXUA4) x 1 Battery "R6" x 2 (for the remote control) FM feeder antenna x 1 Loop antenna stand x 1 Speaker cord x 2 Antenna adapter x 1

Design and specifications are subject to change without notice.

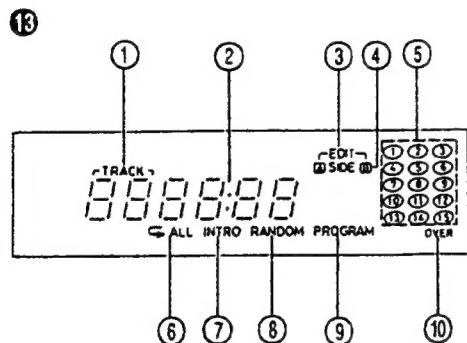
5. Instructions (Extract)

NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section

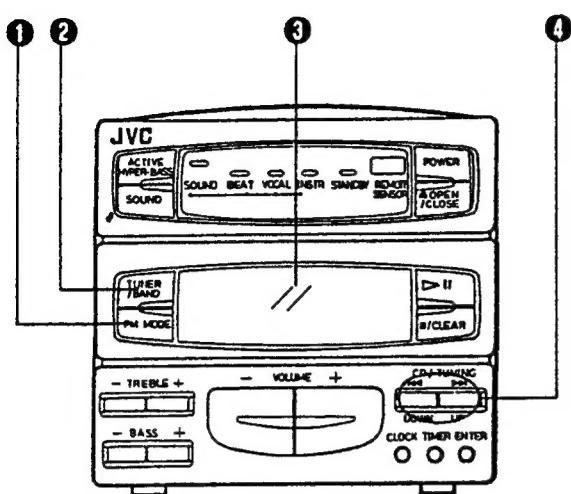


- ① SOUND button
- ② ACTIVE HYPER-BASS button
 - on: The ACTIVE HYPER-BASS Indicator will light. Set to this position to listen to the ACTIVE HYPER-BASS sound.
 - off: The ACTIVE HYPER-BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS sound is not required.
- ③ Active Hyper-Bass indicator
- ④ CD door
- ⑤ Sound mode indicators (BEAT/VOCAL/INSTR.)
- ⑥ Power STANDBY indicator
- ⑦ REMOTE SENSOR section
- ⑧ POWER button
 - Press to switch the power on or off.
- ⑨ CD door OPEN/CLOSE button (Δ)



- ⑩ TREBLE buttons (+,-) (control range from -6 to 6)
- ⑪ BASS buttons (+,-) (control range from -6 to 6)
- ⑫ VOLUME buttons
 - +: Use to increase the volume
 - : Use to decrease the volume
 - (control range from VOL 0 to VOL 50)
- ⑬ Display window
 - ① Function/Track number display
 - ② Playback time display
 - ③ EDIT recording mode indicator
 - ④ SIDE (A)/(B) indicator
 - ⑤ Music calendar display
 - ⑥ Repeat playback indicator
 - ⑦ INTRO scan indicator
 - ⑧ RANDOM playback indicator
 - ⑨ PROGRAM mode indicator
 - ⑩ OVER indicator
- ⑭ CD SEARCH buttons (\blacktriangleleft , \triangleright): Press to locate the beginnings of tunes and to start forward and reverse search operations.
- ⑮ Stop/CLEAR button (■): Press to stop playing a disc and to cancel programmed playback. This also sets the CD mode.
- ⑯ Play/pause button ($\triangleright\llcorner$): Press to play a disc and to stop temporarily.

Tuner/Deck section



① FM MODE button

② TUNER/BAND button

Press to select the tuner mode.

Press to select the band (FM/AM (MW/LW)).

③ Display window

① Band indicator (FM/AM (MW/LW))

② Radio frequency display

③ MONO indicator

④ STEREO indicator

⑤ Preset station display

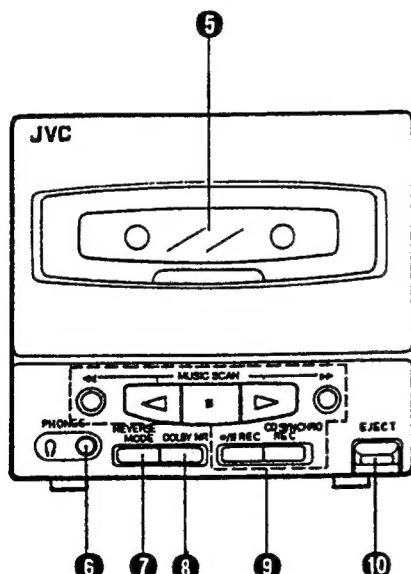
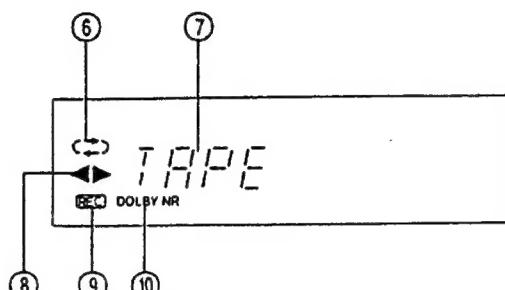
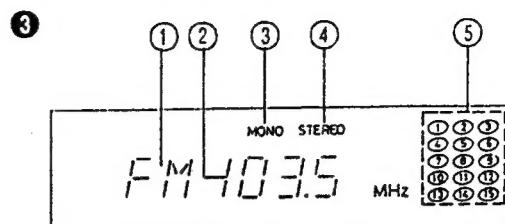
⑥ Reverse mode indicator (↔ / ↔ / ↔)

⑦ Tape mode display

⑧ Tape direction indicator (◀, ▶)

⑨ Recording indicator (REC)

⑩ DOLBY NR indicator (DOLBY NR)



④ Tuning button (UP/DOWN)

⑤ Cassette holder

⑥ Headphones jack (PHONES) (3.5 mm dia. stereo mini)
Connect headphones (impedance 16Ω - 1kΩ) to this jack. The speakers are automatically switched off when the headphones are connected.

⑦ REVERSE MODE switch

↔ : For single-side recording or playback

↔ : For both-sides recording or playback

↔ : For continuous play

⑧ DOLBY NR button

Set to ON when recording or playing back tapes using the noise reduction system.

⑨ Cassette operation buttons

◀ : Press to fast wind the tape from right to left/Music scan.

◀ : Press to play back the tape in the reverse direction.

■ : Press to stop the tape.

This also sets the TAPE mode.

▶ : Press to play back the tape in the forward direction.

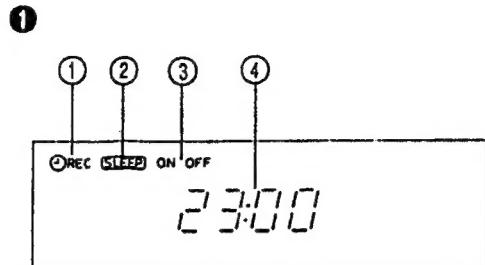
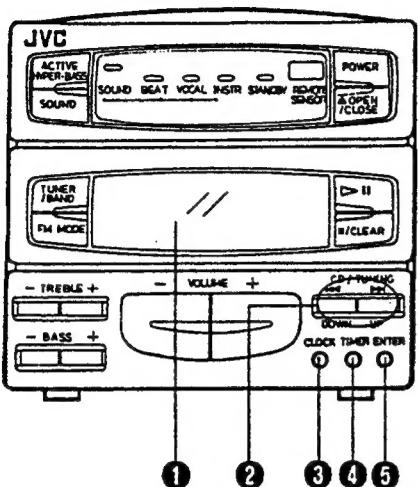
▶ : Press to fast wind the tape from left to right/Music scan.

●/II REC : Press to set the unit to the record or record-pause mode.

CD SYNCHRO REC : Press to start CD edit recording/synchro recording.

⑩ EJECT button

Clock/Timer section

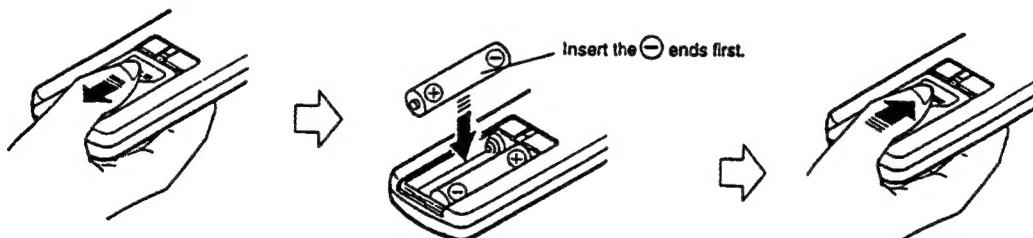


- ① Display window
- ① Timer mode indicator
- ② SLEEP indicator
- ③ Timer indicator (ON/OFF)
- ④ Time display
- ② UP/DOWN buttons
- Set the time or timer setting.
- ③ CLOCK button
- Set the time and current time displays.
- ④ TIMER button
- Set the timer setting or timer ON/OFF (to reset or cancel the timer).
- ⑤ ENTER button
- Register the time or timer setting.

REMOTE CONTROL UNIT

Preparation before use

- Installing batteries in the remote control unit
- 1. Remove the battery cover from the back of the remote control unit.
- 2. Insert two "R6" size batteries.
 - Insert the batteries with the + and - terminals matching the indication inside the battery compartment.



3. Replace the cover.

- Battery replacement
When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

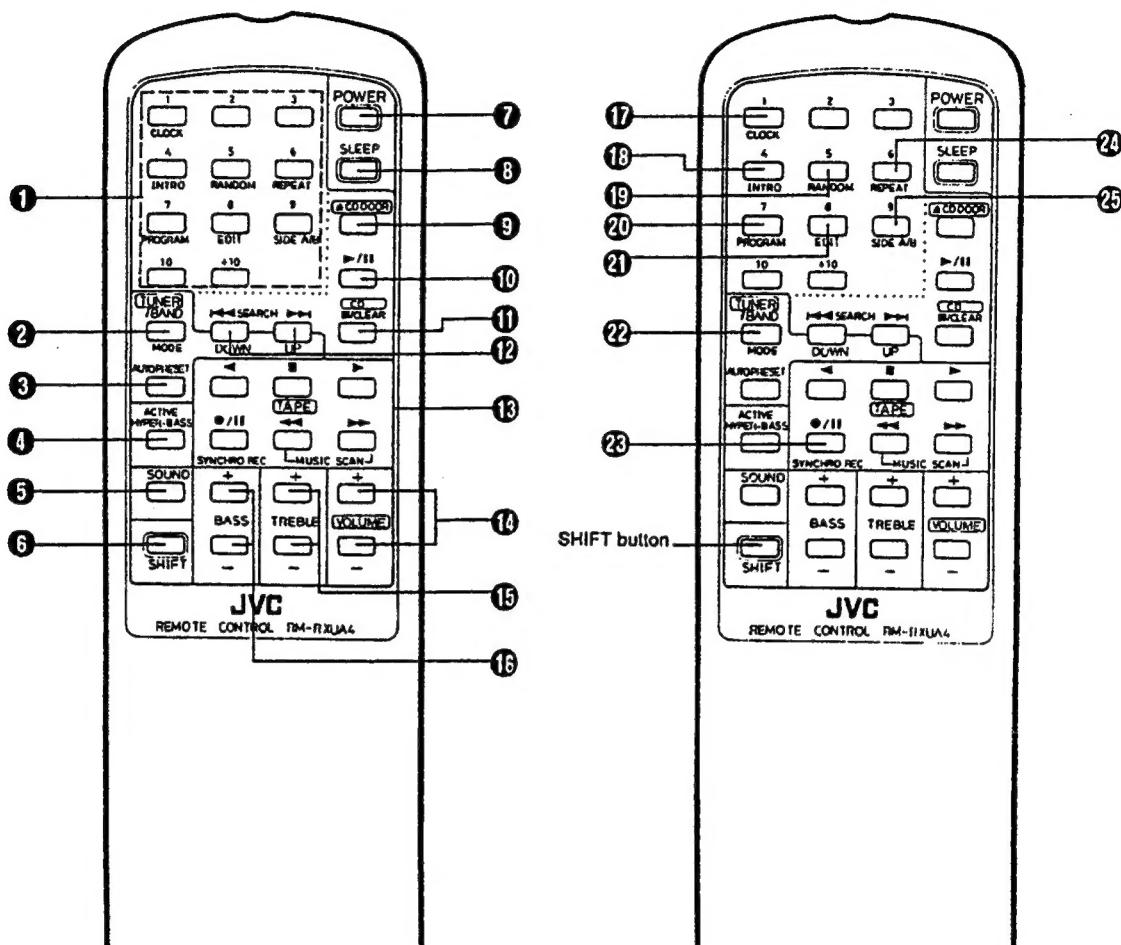
Using the remote control unit

To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far as possible.

Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

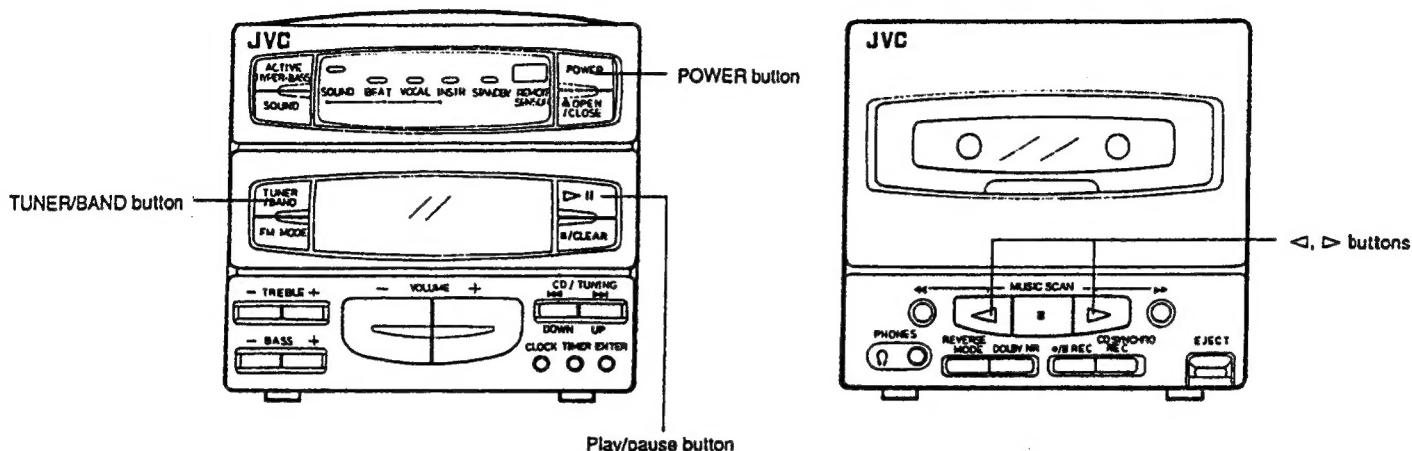


- ① Track (tune) number buttons (No.1 – No.10, +10)
- ② TUNER/BAND button
- ③ AUTO PRESET button
- ④ ACTIVE HYPER-BASS button
- ⑤ SOUND button
- ⑥ SHIFT button
- ⑦ POWER button
- ⑧ SLEEP button
- ⑨ CD DOOR button (▲)
- ⑩ CD ▶/II: CD mode/play/pause button
- ⑪ ■/CLEAR:stop/clear button
- ⑫ CD SEARCH/DOWN and UP button (◀◀, ▶▶)
 - In the CD mode, to scan to the beginning of a tune and to start forward or reverse search.
 - In the tuner mode, to tune to broadcasts.
- ⑬ Cassette operation buttons
 - ◀ : Play button (reverse direction of tape)
 - : Stop button
 - ▶ : Play button (forward direction of tape)
 - : Record/Record-pause button
 - ◀▶ : Fast wind (from right to left)/Music scan button
 - ▶▶ : Fast wind (from left to right)/Music scan button
- ⑭ VOLUME buttons (+,-)
- ⑮ TREBLE buttons (+,-)
- ⑯ BASS buttons (+, -)

Press the following buttons while holding down the SHIFT button ⑥.

- ⑰ CLOCK button
Use to display a current time.
- ⑱ INTRO button
- ⑲ RANDOM button
- ⑳ PROGRAM button
- ㉑ EDIT button
- ㉒ MODE(STEREO/AUTO/MONO) button
- ㉓ SYNCHRO REC button
- ㉔ REPEAT button
- ㉕ SIDE A/B button

SWITCHING THE POWER ON/OFF



Switching the power on/off

- Switching on:



The indicator goes out.

- The indicator in the display window lights.

COMPU PLAY

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

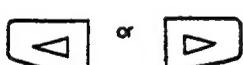
Function mode



CD

Operations

When this button is pressed with a CD loaded, CD playback begins.



TAPE

When this button is pressed with a tape loaded, tape playback begins.



TUNER

When this button is pressed, the tuner is engaged.

When the CD door OPEN/CLOSE button (Δ) is pressed, the source sound does not switch over, the CD door can open or close.

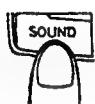
Notes:

1. When switching off the power, be sure to press the power button.
2. The COMPU PLAY button on the remote control has the same function as the UX-A4.
3. When the CD door opens and the Play/pause ($>\text{II}$) button is pressed, the CD door closes and the CD play starts.

Sound mode button

The UX-A4 has three preset sound modes (BEAT, VOCAL, INSTR.). These modes can be selected to enhance the type of music being played.

- Press the SOUND button to select Sound mode. Each time the SOUND button is pressed, Sound mode changes as follows:



No display mode → BEAT → VOCAL → INSTR.



- When INSTR. mode is selected, Active-Hyper Bass sound is automatically switched ON.

Sound mode selection

BEAT:

Set to this position for music with a heavy beat, such as rock or disco music.

VOCAL:

Set to "VOCAL" for popular or vocal music.

INSTR.:

Select this position for background and instrumental music.

Note:

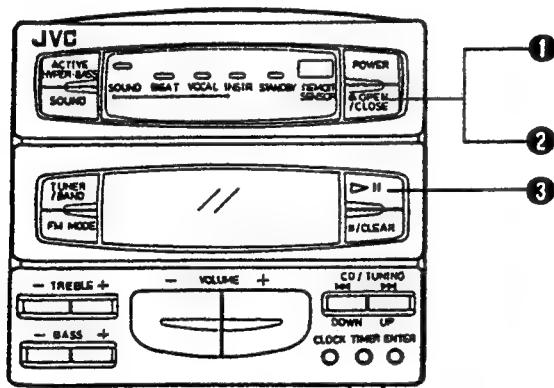
When the BASS or TREBLE button is pressed in any sound mode, No Display mode is selected automatically.

PLAYING COMPACT DISCS



Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



- Press to open the CD door. (The power is switched on.)
- Load a disc with the label side facing up. Press to close the CD door. (The door can be closed by pressing the > II button.)
- Press to start play.
 - As tunes are played, their track numbers go out one by one.

- After loading a CD, simply press the > II button to switch on the power and start CD playback.

• 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

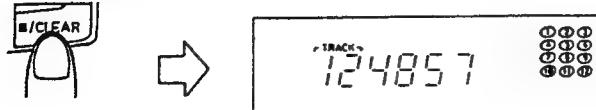
Note:

When the CD door is closed by pressing the > II button, the CD starts as soon as the CD door is closed.

To stop play

- To stop in the middle of a disc
During playback, press the ■/CLEAR button to stop play.

- To stop a disc temporarily
Press the > II button to stop play temporarily and the playing time blinks. When pressed again, play resumes from the point where it was paused.



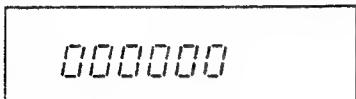
Caution:

- To change discs, press the ■/CLEAR button; check that the disc has stopped rotating completely before unloading it.

- The total number of tracks (tunes) and total playing time are displayed.

Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
In such a case, check the disc and insert again after cleaning the disc or turning it over.

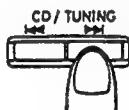


- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

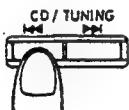
Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

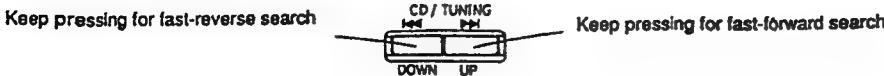
To listen to the next tune ...
Press the **▶▶I** button once to skip to the beginning of the next tune.



To listen to the previous tune ...
Press the **I◀** button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.

**Search playback
(to locate the required position on the disc)**

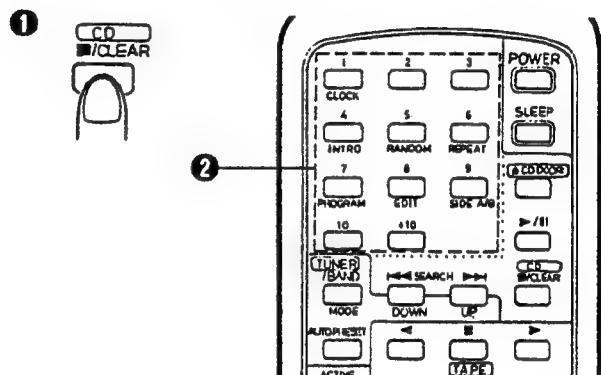
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

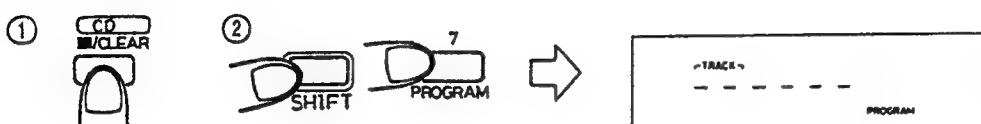
- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the **CD ▶/II** button. (This function cannot be used during programmed play.)



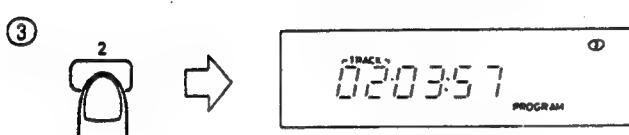
- Press the **■/CLEAR** button to set to the CD mode.
- Designate the required tune using the track number buttons.
 - To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
 - To designate tune number 11 or higher, press the **+10** button the required number of times, then the track number button. (Example: To designate the 20th tune, press the **+10** button once, then press track number button 10.)
 - +10 button:**
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.
 - To skip to another tune during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.
The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).
(Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)



To designate the 2nd tune.

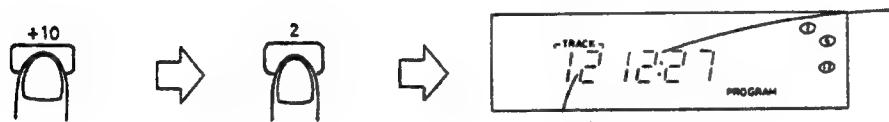


- ① Press the ■/CLEAR button.
 - ② Press the PROGRAM button while pressing the SHIFT button to set to the programming mode.
 - ③ Press to designate the required track number.
 - ④ Designate the remaining tunes by pressing the track number buttons.
 - ⑤ Press the ►/II button when programming is completed. Programmed playback starts.



To clear the programmed tunes ...
Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the CD door is opened, programmed tunes are cleared automatically.

To designate the 12th tune.



The total playback time of programmed tunes is displayed.



To confirm the details of a program...

To confirm the details of a program....
Press the PROGRAM button while pressing the SHIFT button; the tunes making up the program will be displayed in programmed order.



①
TRACK
02P-01 /
PROGRAM

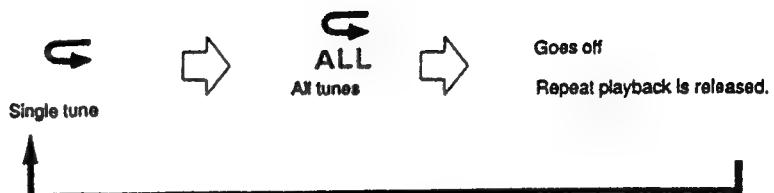
Notes:

- If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
 - Programming 21 or more tunes is impossible.
 - When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
 - When a track number that is higher than 21 is programmed for a disc which contains more than 21 tunes, the track No. is displayed, however, "-:-" is shown in the total playback time.
 - When performing timer playback in the order of "Programmed play", step ④ above is not required.

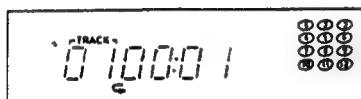
Repeat play (using the remote control)

Press the REPEAT button while pressing the SHIFT button before or during play. A single tune or all the tunes can be repeated.

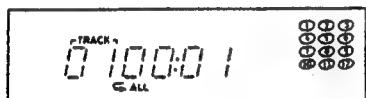
Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed while pressing the SHIFT button, the mode will change from a single tune (\square), to all the tunes (\square ALL), to the clear mode, in this order.



- Repeat playback of a single tune (\square)
The tune being played back will be heard repeatedly.



- Repeat playback of all tunes (\square ALL)
When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.



Random playback (using the remote control)

Press the RANDOM button while pressing the SHIFT button, all tunes on a disc are played once, in random order.



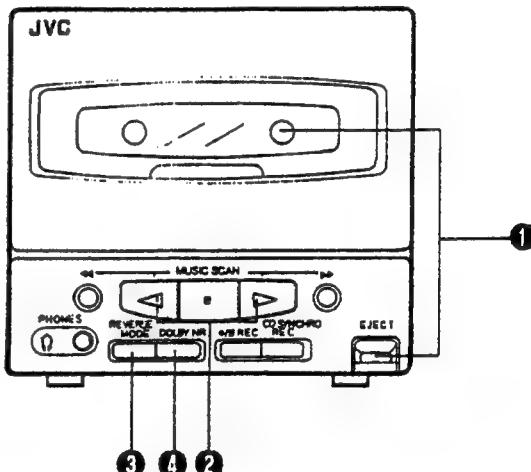
INTRO scan operation (using the remote control)

- Simply press the INTRO scan button while pressing the SHIFT button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune while pressing the SHIFT button, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again while pressing the SHIFT button and normal playback (or programmed playback) will resume.



CASSETTE PLAYBACK

Operate in the order shown



Music scan

- The beginning of the current tune or the next tune can be located using the music scan facility.
- ① Press the ▶ or < button for tape playback.
 ② Press the ►► or ◀◀ button for music scan.

- ③ When music scanning is completed, playback will start automatically.
- To skip two tunes or more, repeat the above steps ② and ③.

Notes:

With the following types of tape, the Music Scan mechanism may not operate correctly. This is not a malfunction; use the Music Scan facility only with suitable tapes.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portion during tunes.
- Tapes with short non-recorded sections.
- Tapes with high-level noise or hum between tunes.

- To the start of the next tune
- To the start of the tune being played back

(Forward (▶) direction playback)



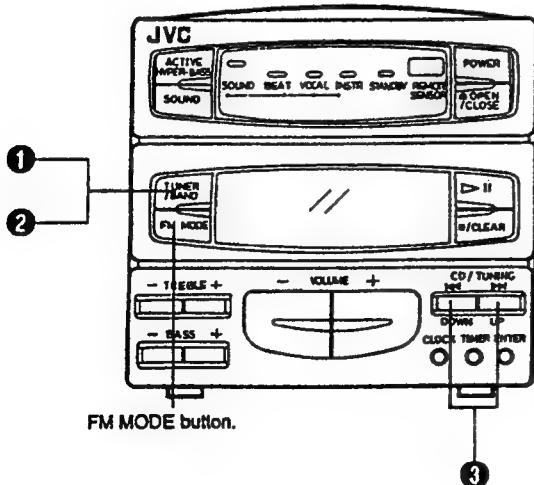
(Reverse (<) direction playback)



The tape direction indicators blink during music scanning.

RADIO RECEPTION

Operate in the order shown



- ① Press the TUNER/BAND button.
 • The power is switched on and a band and radio frequency will be shown in the display.
 ② Select the band (FM or AM (MW/LW)).
 ③ Tune to the required station.

FM MODE button

AUTO:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

MONO:

Set to this position when FM stereo reception is noisy.

• Seek tuning

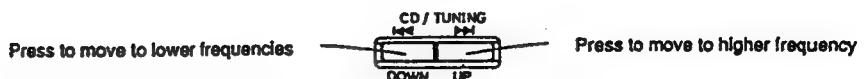
Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

- **Manual tuning**

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).

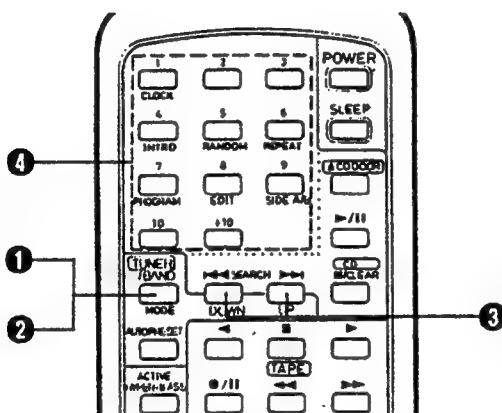
In AM operation, the frequency moves continuously from the MW (522 - 1,629 kHz) to the LW (144 - 288 kHz) band and vice versa.



Auto preset tuning (using the remote control unit)

This function scans the current band (FM or AM (MW/LW)), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the AUTO PRESET button. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency.(15 stations in each band (FM and AM (MW/LW)).



Preset tuning (using the remote control unit)

- ① Press the TUNER/BAND button
- ② Select the band (FM or AM (MW/LW)) using the TUNER/BAND button.
- ③ Press the required preset station buttons (No.1 - No.10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas

FM: Connect the provided FM feeder antenna
(see page 7).

AM (MW/LW): Adjust the position of AM (MW/LW)
loop antenna.

Notes:

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM (MW/LW)) can be preset as follows:

- Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



- ① Press the TUNER/BAND button.
- ② Select the FM band using the TUNER/BAND button.
- ③ Tune to the required station.
- ④ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the AM (MW/LW) band.

- To change preset stations
Perform step ④ above after tuning to the required station.

Notes:

- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control is used.
- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, preset them again.

RECORDING

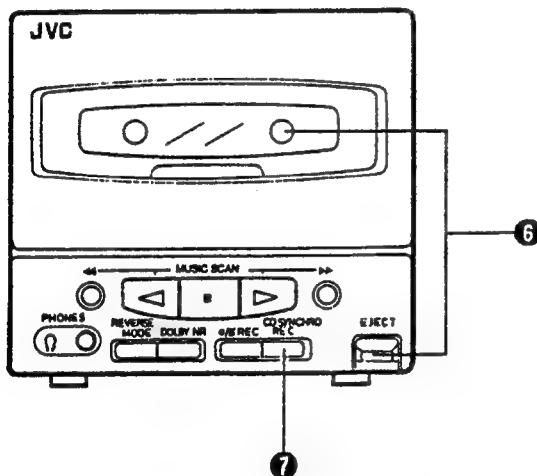
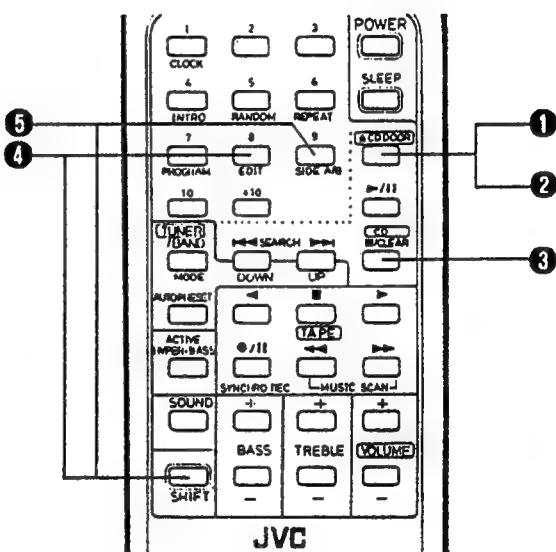
- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

Notes:

This unit has recording characteristics suitable for normal and CrO₂ tapes. Normal and CrO₂ tapes have different characteristics from metal tape.

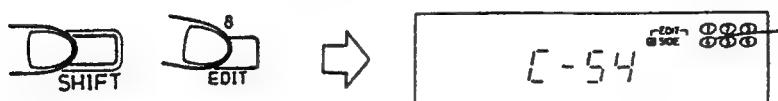
CD edit recording (for CDs with up to 20 tunes)

- By checking the total playing time of the CD, a microcomputer in the unit automatically calculates the optimum length (recording time) of the tape to be used, displays the required tape length, and divides the tunes on the disc into two groups to be recorded on the two sides of the tape so as to minimize tape waste.

**Operate in the order shown**

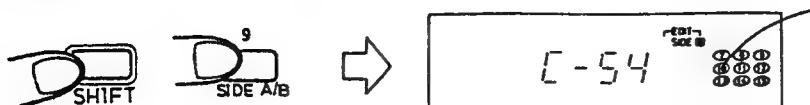
- ① Press to open the CD door. (The power is switched on.)
- ② Load a disc and press to close the CD door.
- ③ Set to the CD mode.

- ④ Press the EDIT button while pressing the SHIFT button.



The tune numbers recorded on side A appear.

- ⑤ Press the SIDE A/B button while pressing the SHIFT button.



The tune numbers recorded on side B appear.

- ⑥ Insert a cassette with a suitable length (recording time) with side A facing out.
 - The tape length can be set from the remote control. (See below.)
- ⑦ Press the CD SYNCHRO REC button to start CD edit recording.
 - Recording starts in the forward direction (on the side facing out).
 - During edit recording, the leader tape section (approx first 10 sec.) is wound automatically and then recording starts. The reverse mode is set to \Rightarrow mode automatically.
 - The tape stops automatically when the CD has been played.

• To change the tape length (recording time)

When the EDIT button is pressed while pressing the SHIFT button with a CD loaded, the tape length required to record the entire disc is displayed (C-46, C-54, C-60, C-74 or C-90).

At this time, the displayed tape length can be changed by pressing the track number buttons.

Example: To change to C-50

Press the +10 button four times, and within 10 seconds, press the 10 button.

When the length of the tape is changed, some of the tunes that were to be recorded on side A may be indicated as to be recorded on side B or vice versa, according to the tape length specified.

Depending on the tape length specified, some tunes may not be recorded on the tape. Set the tape length (recording time) so that the entire disc can be recorded.

- When editing a disc with 16 to 20 tunes
CD editing can be used to record discs containing up to 20 tunes, however, the music calendar shows up to only 15 tunes.

As the 16th to 20th tunes will not appear in the music calendar display (the "OVER" indicator will light), be sure to check the tunes you have recorded after completing editing.

- Set the DOLBY NR as required. The DOLBY NR indicator lights.

Note:

The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

Notes:

- When a disc with 21 tunes or more is loaded, "C---" will appear in the display. In such a case, set the required tape length using the track number buttons on the remote control.
- In CD edit recording blanks of approx. 4 seconds will automatically be left between tunes on the recorded tape.

When automatic spacing between tunes is not required ...

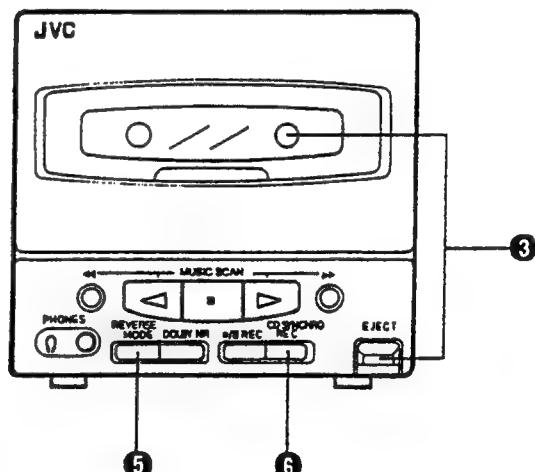
Perform the following.

1. Press the \triangleright/\ll button of the CD player twice. The CD Player enters the pause mode.
2. Press the CD SYNCHRO REC button to start recording.

Note:

- Depending on the disc used, blanks of a specified length may be left between tunes

- After use
Press the ■/CLEAR button to release the CD edit recording mode. (The CD edit recording mode is also released when the CD door is open.)



- ➊ Load a disc and close the CD door. (The power is switched on.)
- ➋ Set to the CD mode.
- ➌ Load a cassette with side A facing out. (Wind past the leader tape before starting recording.)
- ➍ When programmed playback is required, program the required tunes using the remote control. (See page 27.)
 - Select tunes with a total playing time which does not exceed the tape length.
- ➎ Select the required reverse mode (\Rightarrow or \Leftarrow).
- ➏ Press the CD SYNCHRO REC button; synchronized recording will start.
 - Recording starts in the forward direction and CD play starts automatically.

- When the CD player has played the disc or programmed tunes, the deck stops automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the ■ (stop) button of the cassette deck.
- CD complete recording function (Synchro recording mode only)**
If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:
 - When less than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous tune.
 - When more than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current tune.
- To record an entire disc in the tune order of the CD**
After the operations in steps ① - ④ above, press the ▶/II button of the CD player after the ●/II REC and ▶ buttons have been pressed.

Note:

- During CD edit recording and synchro recording, the PAUSE and SEARCH buttons do not function.

- Load a cassette with side A facing out.
(Wind past the leader tape before starting recording.)
 - Press the TUNER/BAND button. Tune to the required station.
 - Select the required reverse mode (↔ or ↔).
 - Press the ●/II REC button (recording-pause mode).
 - The tape direction indicator (↔) blinks.
 - The function switch is locked and its position cannot be changed.
 - Press to start recording.
- To stop recording temporarily, press the ●/II REC button. To resume recording, press the ▶ or ← button corresponding to the tape direction indicator which is blinking.

Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

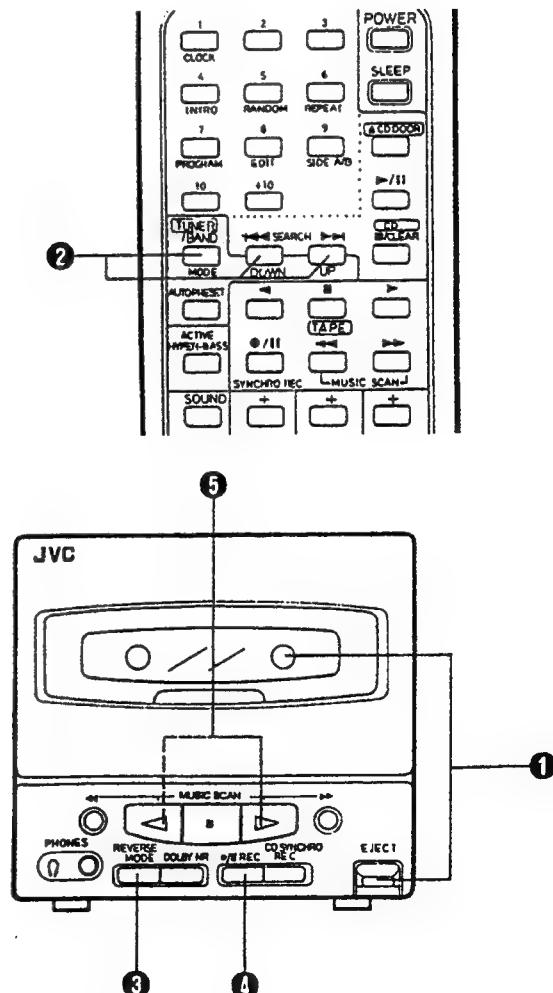
To erase a tape without making a new recording...

Press the ■ (stop) button to set to the TAPE mode, then perform recording.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Recording from the radio

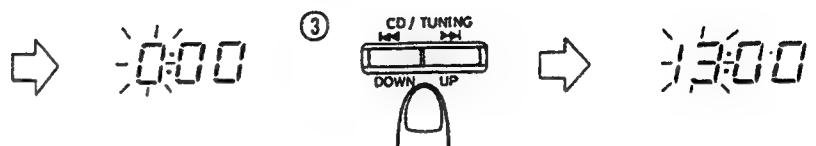
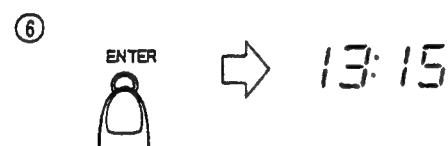
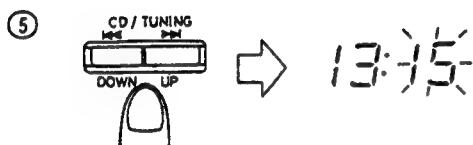
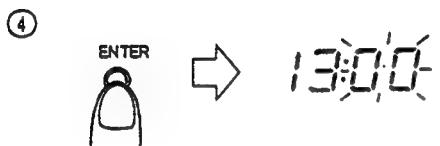
Operate in the order shown



CLOCK/TIMER ADJUSTMENT

**Setting the current time
(when the UX-A4 is used for the first time)**

(Example: to set the clock to 13:15.)



- ① Connect the AC power cord; "0:00" will blink in the display.
- ② Press the CLOCK button for 2 sec. or more; the hour's digits will blink.
- ③ Set to 13:00 by pressing the UP/DOWN buttons. (When the buttons are kept pressed, the time indication changes continuously.)
- ④ Press the ENTER button; the minute's digits will blink.
- ⑤ Set to 13:15 by pressing the UP/DOWN buttons.
- ⑥ Press the ENTER button; the time will light in the display.
- To set to the nearest second...
Press the ENTER button when you hear the time signal from a TV or radio.

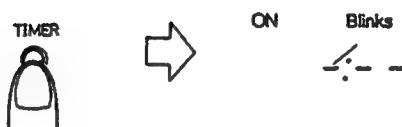
Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, clock display will blink or light in the display. Set the current time again.

Setting the timer

- The current time must be set before the timer can be used.

- ① Press the TIMER button.

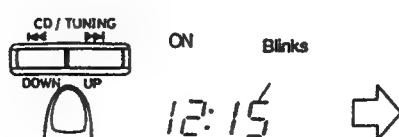
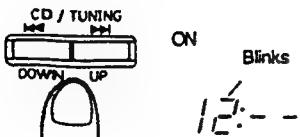


- ② Set the start time

(Example: when the timer start time is set to 12:15.)

- ① Adjust the hours.

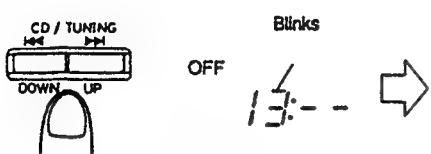
- ② Adjust the minutes.



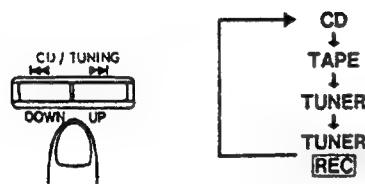
- Press to set the start time.

① Set the stop time

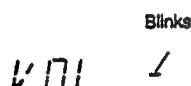
(Example: when the timer stop time is set to 13:15.)

① Adjust the hours.**② Adjust the minutes.**

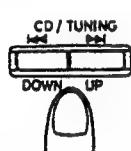
• Press to set the timer off time.

④ Select the TIMER mode.

• The selected timer mode is shown in the display.



When the UP button is pressed to select the timer mode, the mode changes from the, CD (timer playback of a CD), TAPE (timer playback of a tape), TUNER (timer reception of a broadcast) to TUNER/REC (timer recording of a broadcast), in this order.

⑤ Set the volume.

This shows when volume level 1 is selected.



• The selected volume is set.

The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume.



The volume decreases to zero at the timer start time, and the sound fades in.

- The unit enter the previously engaged mode and timer setting is complete.
- To check the timer setting
 1. Press the TIMER button.
 2. Press the ENTER button to check the timer mode.
 3. When the previous engaged mode is displayed, timer setting has been completed.

Notes:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, "-:-" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to ":" using the UP button and press the ENTER button.

TIMER OPERATIONS

Timer recording of broadcast

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

Operations

- Set the POWER button to ON.
- Load a cassette.
 - Insert the cassette with the side to be recorded facing out.
 - Set the reverse mode button to "↔" or "↔↔" and set the DOLBY NR button as required.
- Set the timer start and stop times, set the timer recording mode, then set the required volume, in this order. (Refer to "Setting the timer" on page 46.)
 - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
- Tune to the station to be recorded. (Refer to page 34.)
- Set the POWER button to STANDBY.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations

- Set the POWER switch to ON.
- Set the timer start and stop times, set the timer playback mode, then set the volume, in this order. (Refer to "Setting the timer" on page 46.)

Source sound	Timer mode	Operations
CD play	CD	Load a disc.
Tape playback	TAPE	Load a cassette tape.
Broadcast	TUNER	—

- Timer playback of a CD is possible in programmed order. (See page 27.)
- The volume can be set to 50 different levels.

- Tune to the required frequency when the timer playback of a broadcast is to be performed.
- Switch the power off.

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- Timer recording will start at preset start time and the power will be switched off at preset stop time. When timer recording is completed, the timer mode is switched to the "TUNER" (timer reception of broadcast) mode.

To cancel timer operation

Press the TIMER button so that the timer mode indicator (⌚) goes out.

If you do this, timer recording will not start at the timer start time.

Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

6. Location of Main Parts

■ Tape Deck/Amplifier Section

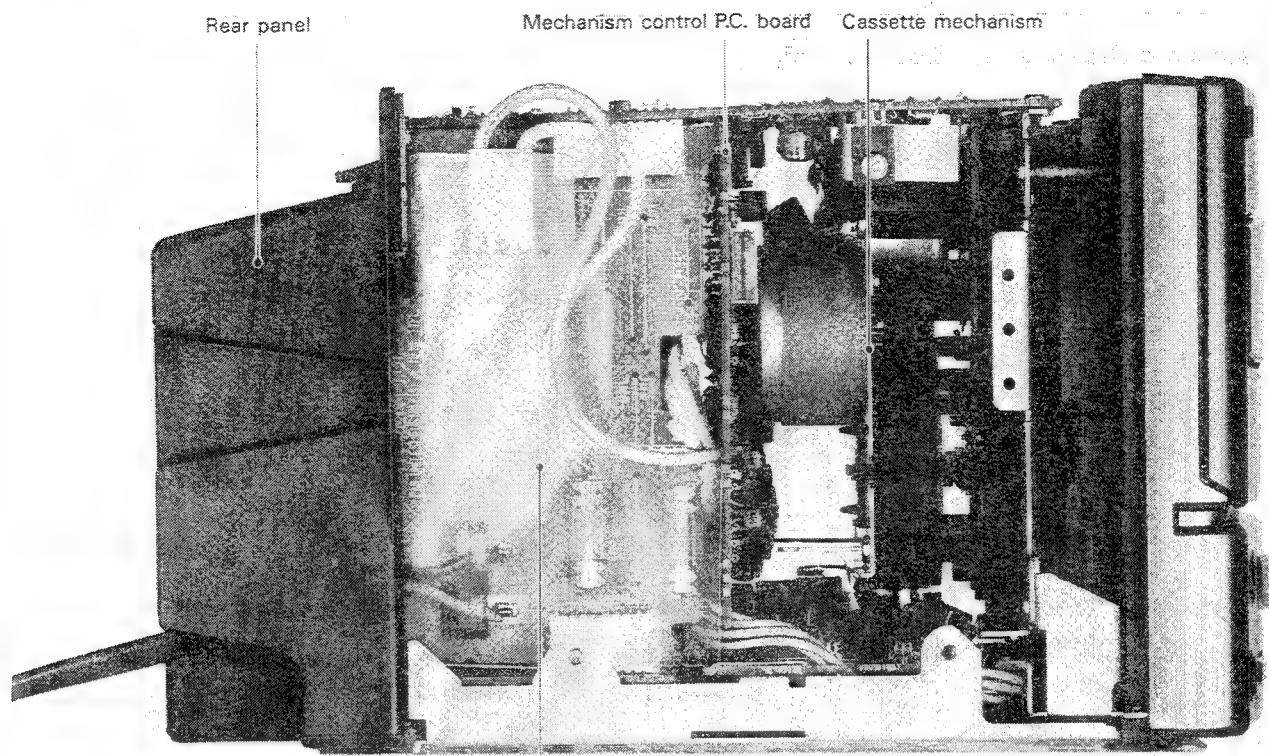


Fig. 6-1

■ CD/Tuner Section

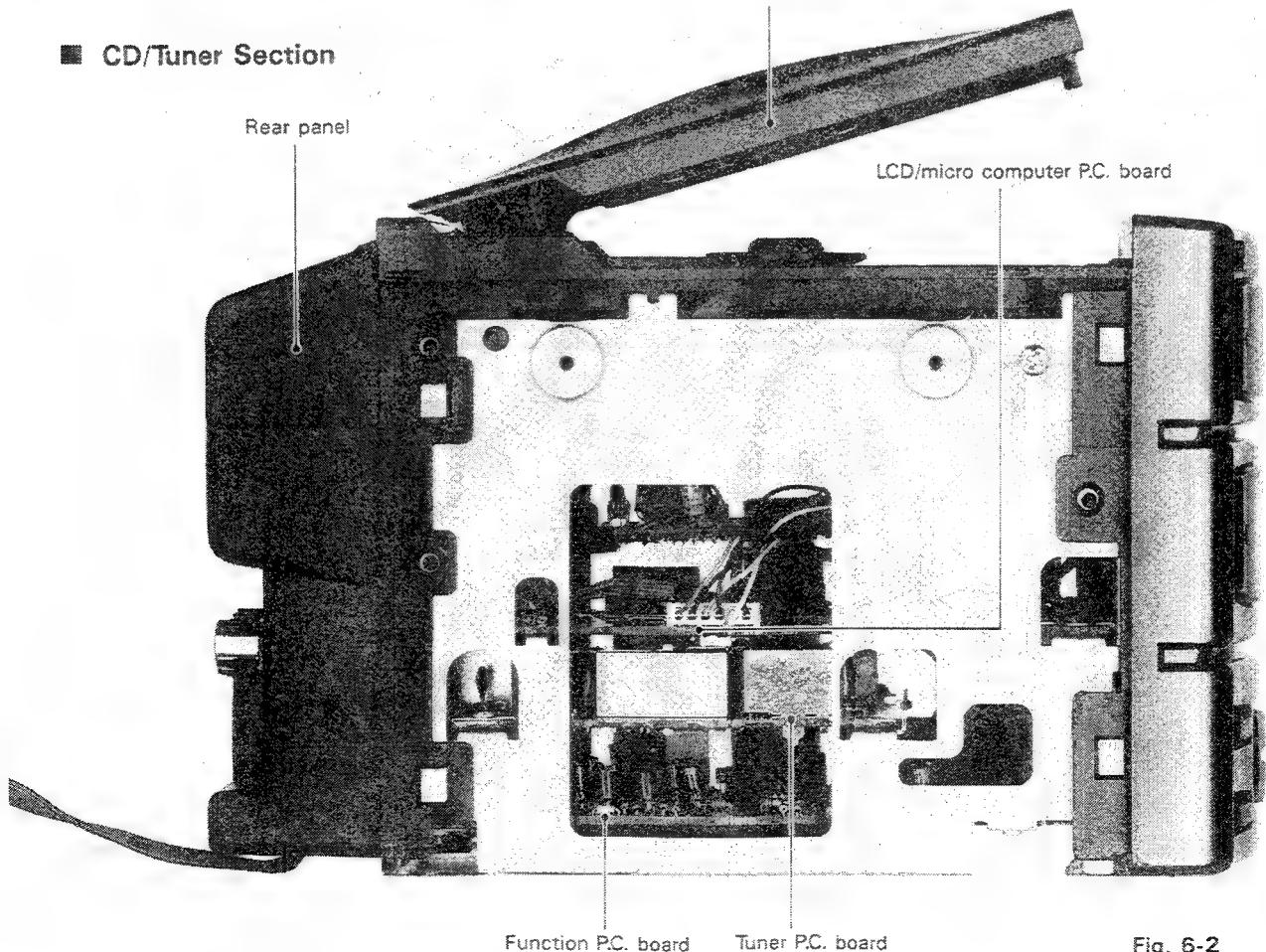


Fig. 6-2

7. Removal of Main Parts and Analytic Drawing

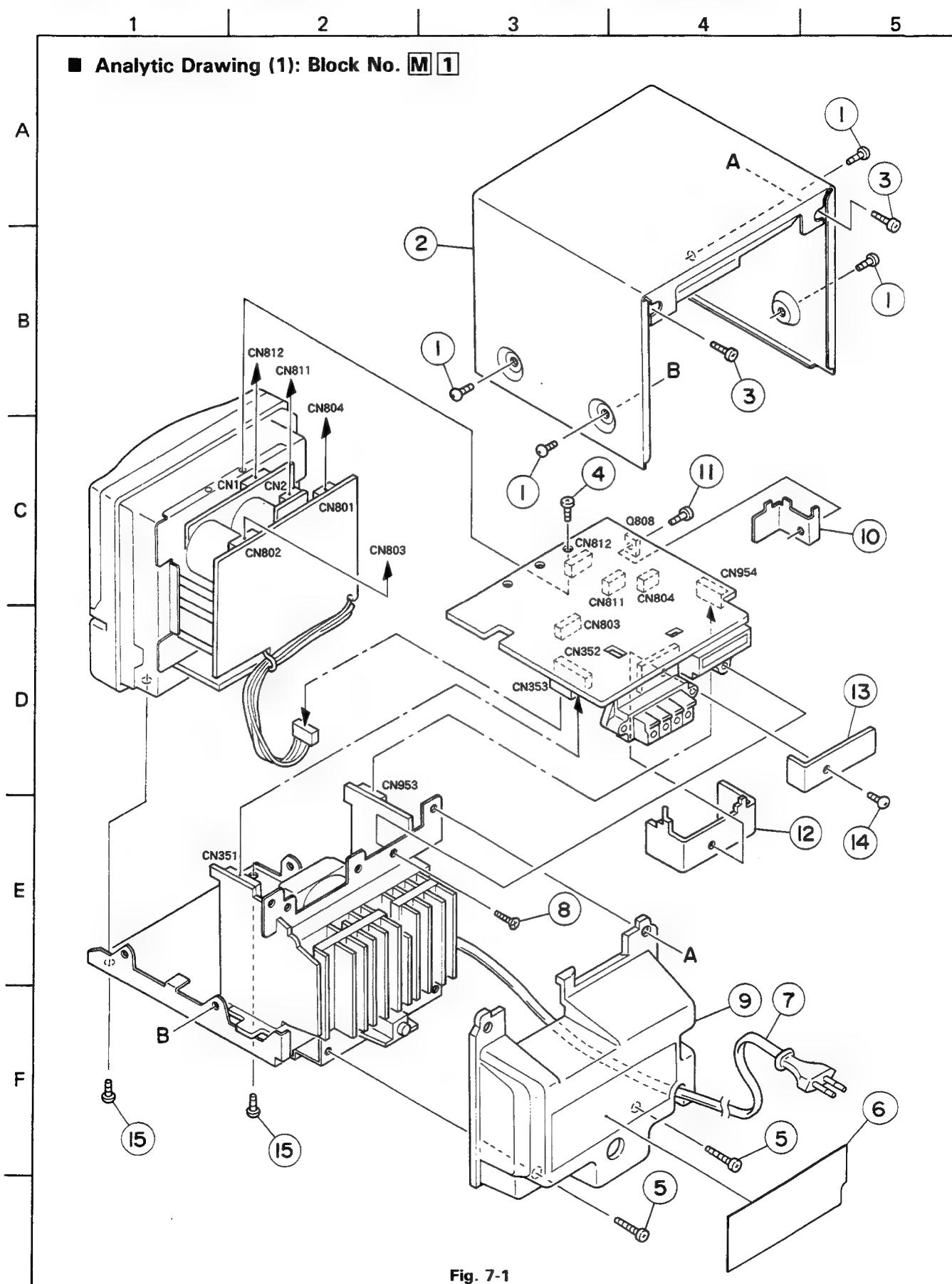


Fig. 7-1

■ Separation of Front Panel Ass'y and Power Supply Unit Ass'y

1. Remove the four screws ① retaining the right and left sides of the top cover from the body.
2. Remove the two screws ③ retaining the rear side of the top cover.
3. Remove the two screws ⑤ retaining the rear panel from the body.
4. Remove the one screw ⑧ retaining the mechanism control speaker terminal P.C. board from the transformer bracket.
5. From the front panel ass'y, remove the one screw ④ retaining the mechanism control speaker terminal P.C. board.
6. After raising (floating) the mechanism control P.C. board upward, dismount the connectors CN954, CN353, CN352, CN812, CN803, CN804 and CN811 on the mechanism control P.C. board respectively from the connector CN953 on the fuse P.C. board, connector CN351 on the power amplifier P.C. board and connector CN1 on the leaf switch P.C. board, connectors CN801 and CN802 on the pre-amplifier P.C. board, and connector CN2 on the actuator reel motor P.C. board.
7. Remove the two screws ⑯ retaining the front panel ass'y from the bottom side of the body.
8. Separate the front panel ass'y and power supply unit ass'y.

■ Analytic Drawing (1) Parts List

BLOCK NO. M1MM 1111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	SDST3006M	SCREW		4		
	2	VJC2412-003	TOP COVER		1		
	3	SDST3008M	SCREW		2		
	4	SBST3006Z	SCREW		2		
	5	SDST3010N	SCREW	FRONT+BOTTOM REAR	2		
▲	6	VYN9214-S002	NAME PLATE		1	B	
▲		VYN9214-S015	NAME PLATE		1	EN	
▲		VYN9214-S108	NAME PLATE		1	GI	
▲		VYN9214-008	NAME PLATE		1	G	
▲		VYN9214-005	NAME PLATE		1	E	
	7	QMP5530-0085BS	POWER CORD		1	B	
		QMP3900-200	POWER CORD		1	E,G,GI,EN	
	8	SSSF3008Z	SCREW	JACK HOLDER+JAC	1		
	9	VJG1125-104	REAR PANEL (D)		1		
	10	VMH4049-001	HEAT SINK		1		
	11	SDST2608Z	SCREW		1		
	12	VMH4047-002	HEAT SINK		1		
	13	VMH4048-001	HEAT SINK		1		
	14	SBSF3012Z	SCREW		1		
	15	SDST2606Z	SCREW	PCB+MECHA.	2		

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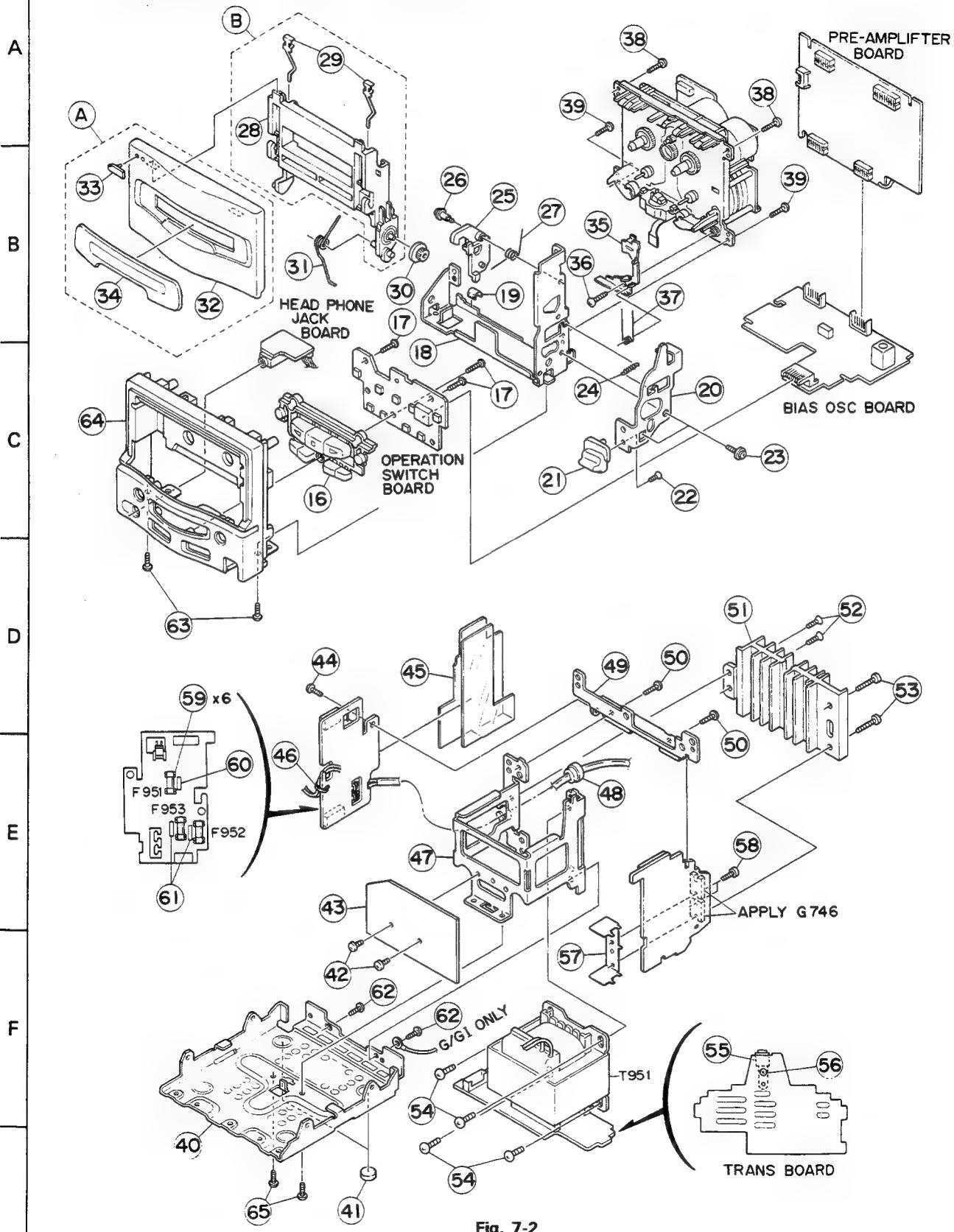
■ Analytic Drawing (2): Block No. M 2

Fig. 7-2

■ Analytic Drawing (2) Parts List

BLOCK NO. M2MM							
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCUXDA4K-CLB	CASSETTE LID	REF.32-34	1		
	B	ZCUXDA4K-CH	CASSETTE HOLDER	REF.28,29	1		
16	VXP3602-001	BUTTON			1		
17	SBSF2608Z	SCREW	FRONT+SW BOARD		3		
18	VYH3787-001	HOLDER			1		
	19	VYSA1R4-059	SPACER	HOLDER	1		
	20	VYH7817-001	EJECT LEVER		1		
	21	VXQ4118-001	EJECT KNOB		1		
	22	SDSF2608Z	SCREW	EJECT KNOB	1		
	23	VKZ4323-002	SCREW	EJECT LEVER	2		
	24	VKW3002-274	TENSION SPRING	EJECT LEVER	1		
	25	VYH7347-001	EJECT ARM		1		
	26	VKZ4341-001	SPECIAL SCREW	EJECT ARM	1		
	27	VKW4938-001	TORTION SPRING	EJECT ARM	1		
	28	VJT2263-003	CASS DOOR		1		
	29	VKY4180-001	CASSETTE SPRING		2		
	30	VYH5601-001	GEAR		1		
	31	VKW5110-001	DOOR SPRING		1		
	32	VJT2330-001	DOOR COVER		1		
	33	E406971-221	JVC MARK		1		
	34	VJT4209-001	DOOR LENS		1		
	35	VKL7293-001	EJECT SAFETY(R)		1		
	36	SBSF3010Z	SCREW	EJECT SAFETY	1		
	37	VKW5069-001	TORSION SPRING	EJECT SAFETY	1		
	38	SBSF3008Z	SCREW	F.PANEL+MECHA.	2		
	39	SBST3006Z	SCREW	HOLDER+MECHA.	2		
	40	VJC3237-003	BOTTOM COVER		1		
	41	VJF4003-003	FOOT		2		
	42	SDST3004Z	SCREW		2		
	43	VMA4603-001	SHIELD PLATE		1		
	44	SBST3008Z	SCREW	J.HOLDER+FUSE P	1		
	45	VMA4604-002	BARRIER	FOR FUSE PCB	1		
	46	QHX5080-001	WIRE CLAMP		3		
	47	VYH3658-002	TRANS BRACKET		1		
	48	QHS3876-162BS	CORD STOPPER	POWER CORD	1	B	
		QHS3876-162	CORD STOPPER		1		
	49	VYH7698-002	JACK HOLDER		1		
	50	SBST3008Z	SCREW	J.HODER+TRANS B	2		
	51	VMH4046-002	HEAT SINK		1		
	52	SSST3008Z	SCREW	HEAT SINK+T.BKT	2		
	53	SDST3012Z	SCREW		2		
	54	SBST4006Z	SCREW	POWER TRANS	4		
	55	VYH7696-001	JACK STOPPER		1		
	56	SBSF3008Z	SCREW	JACK STOPPER	1		
	57	VYH7708-002	IC HOLDER		1		
	58	SDST2608Z	SCREW	IC+IC BKT	2		
	59	VMZ0087-001Z	FUSE CLIP		6		
	60	VND4003-034	FUSE LABEL	FOR F951	1		
	61	VND4003-050	FUSE LABEL	FOR F952	1		
		VND4003-050	FUSE LABEL	FOR F953	1		
	62	SBST3006Z	SCREW	TRANS BKT	4		
	63	SBST3006Z	SCREW	HOLDER+F.PANEL	2		
	64	VJG1238-001	FRONT PANEL(D)		1		
	F 951	QMF51E2-R40J1	FUSE	F951	1		

BLOCK NO. M2MM							
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	F 952	QMF51E2-6R3J1	FUSE	F952	1		
A	F 953	QMF51E2-6R3J1	FUSE	F954	1		
A	T 951	VTP66T2-12DBS	POWER TRANS		1	B	
A		VTP66J2-12D	POWER TRANS		1	E,G,GI,EN	

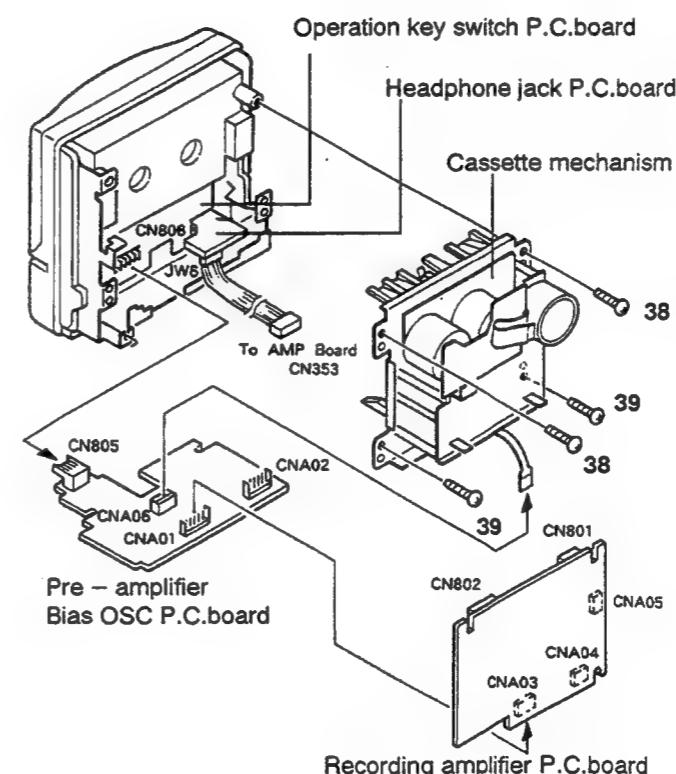


Fig. 7-3

■ Disassembly of Front Panel Ass'y

• Cassette Mechanism (Fig. 7-2, 3)

1. After raising (floating) the recording amplifier P.C. board upward, dismount the connectors CNA03 and CNA04 on the P.C. board respectively from the connectors CNA01 and CNA02 on the pre-amplifier bias OSC P.C. board.
2. Remove the four screws (38) × 2 and (39) × 2 retaining the cassette mechanism from the front panel ass'y.
3. Pull out the flexible head wire from the connector CNA06 on the pre-amplifier bias OSC P.C. board.
4. After drawing the pre-amplifier bias OSC P.C. board toward the front side, dismount the connector CN805 on the P.C. board from the connector CN806 on the operation switch P.C. board.

• Headphone Jack P.C. Board (Fig. 7-2, 3)

The headphone jack P.C. board can be dismounted by drawing it out toward the front side from inside the front panel ass'y.

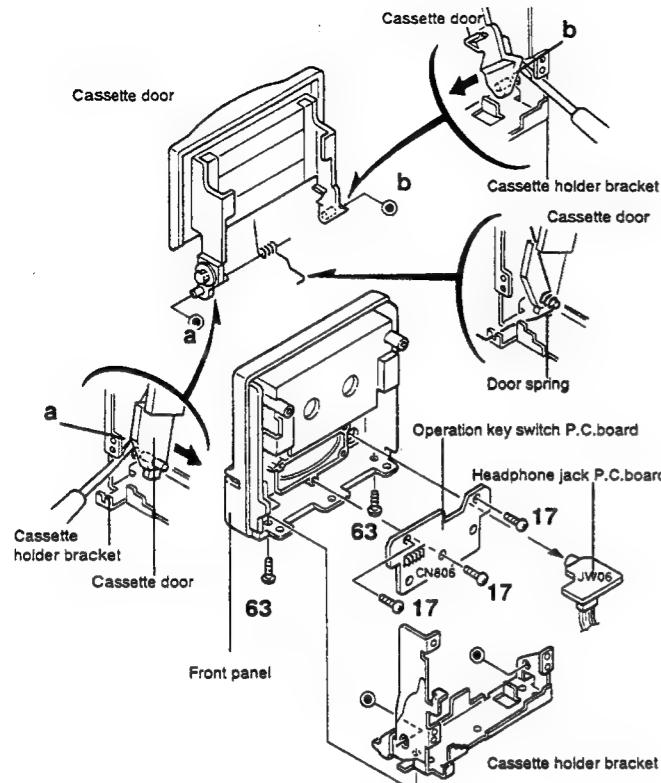


Fig. 7-4

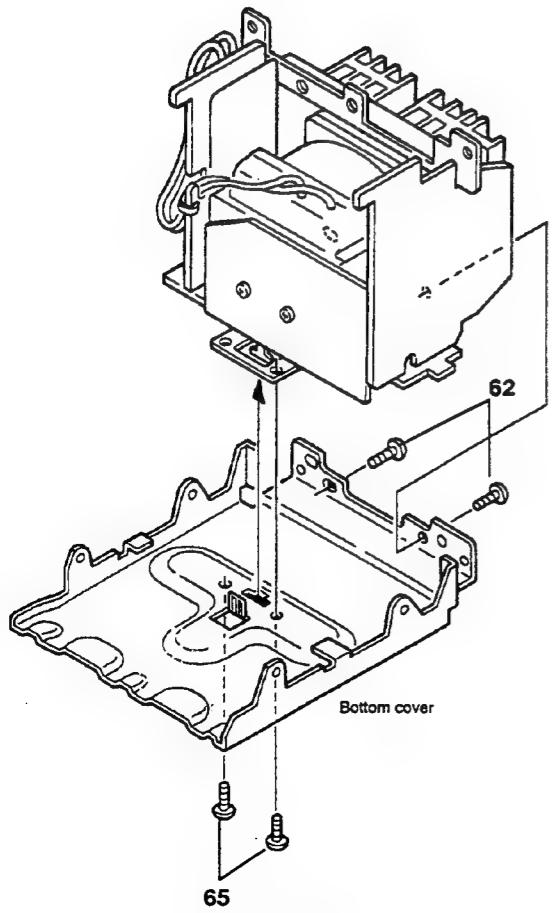


Fig. 7-5

● Operation Key Switch P.C. Board and Front Panel

(Fig. 7-2, 4)

1. Remove the two screws 63 retaining the cassette holder bracket from the lower side of the front panel.
2. Insert minus screw drivers into the two right and left engagement points (a, b) of the cassette door and cassette holder bracket from inside the front panel, and disengage the above door and bracket.
3. Remove the door spring and dismount the cassette door from the front panel.
4. Draw out the cassette holder bracket from the front cover.
5. Draw out the headphone jack P.C. board from the front panel.
6. Remove the three screws 17 retaining the operation key switch P.C. board, and draw out the P.C. board.

■ Power Amplifier Power Supply Ass'y

● Power Supply Transformer (Fig. 7-2, 5~7)

1. Remove the four screws (65 × 2 and 62 × 2) retaining the bottom cover and power supply unit.
2. Remove the four screws (52 × 2 and 53 × 2) retaining the heat sink from the transformer bracket and dismount the power amplifier P.C. board.
3. Remove the one screw 44 retaining the fuse P.C. board from the transformer bracket.
4. Remove the bushing retaining the power supply cord from the transformer bracket.
5. From the connector CN955 on the fuse P.C. board, remove the #2PIN connector outgoing from the power supply transformer.
6. Dismount the connector CN952 on the fuse P.C. board and connector CN951 on the transformer P.C. board.
7. Remove the soldering connecting the power supply transformer from the soldered surface of the transformer P.C. board and dismount the P.C. board.
8. Remove the four screws 54 retaining the power supply transformer from the transformer bracket.

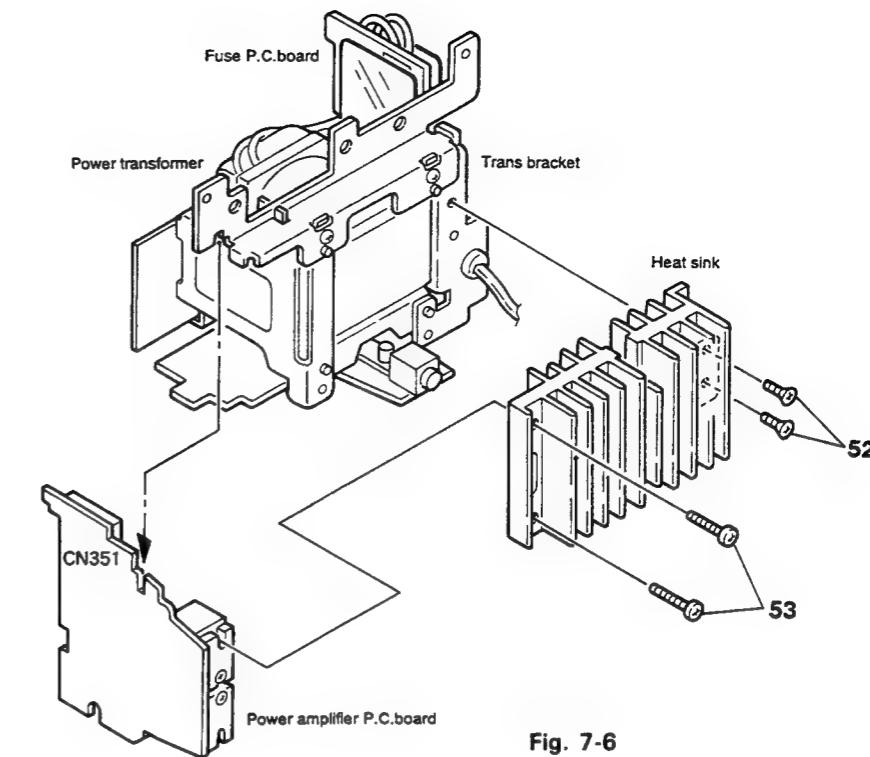


Fig. 7-6

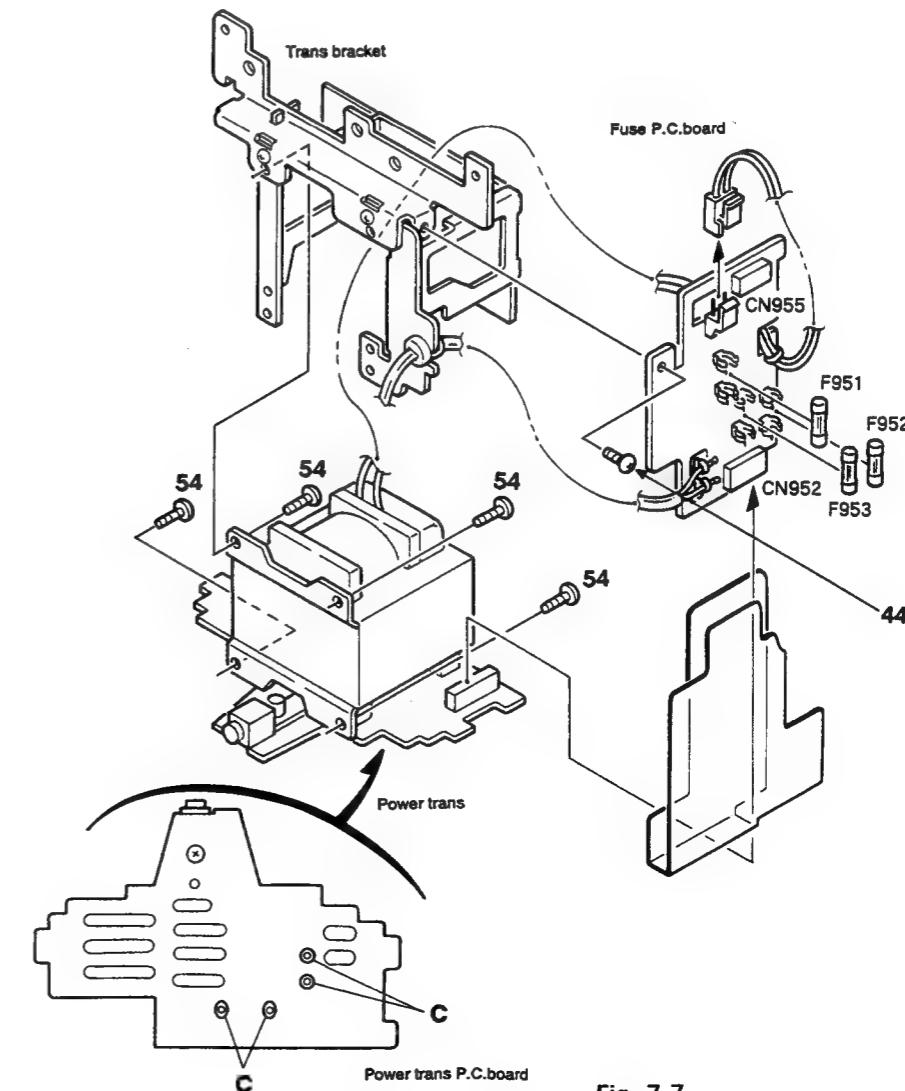


Fig. 7-7

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■ Analytic Drawing (3): Block No. M 3

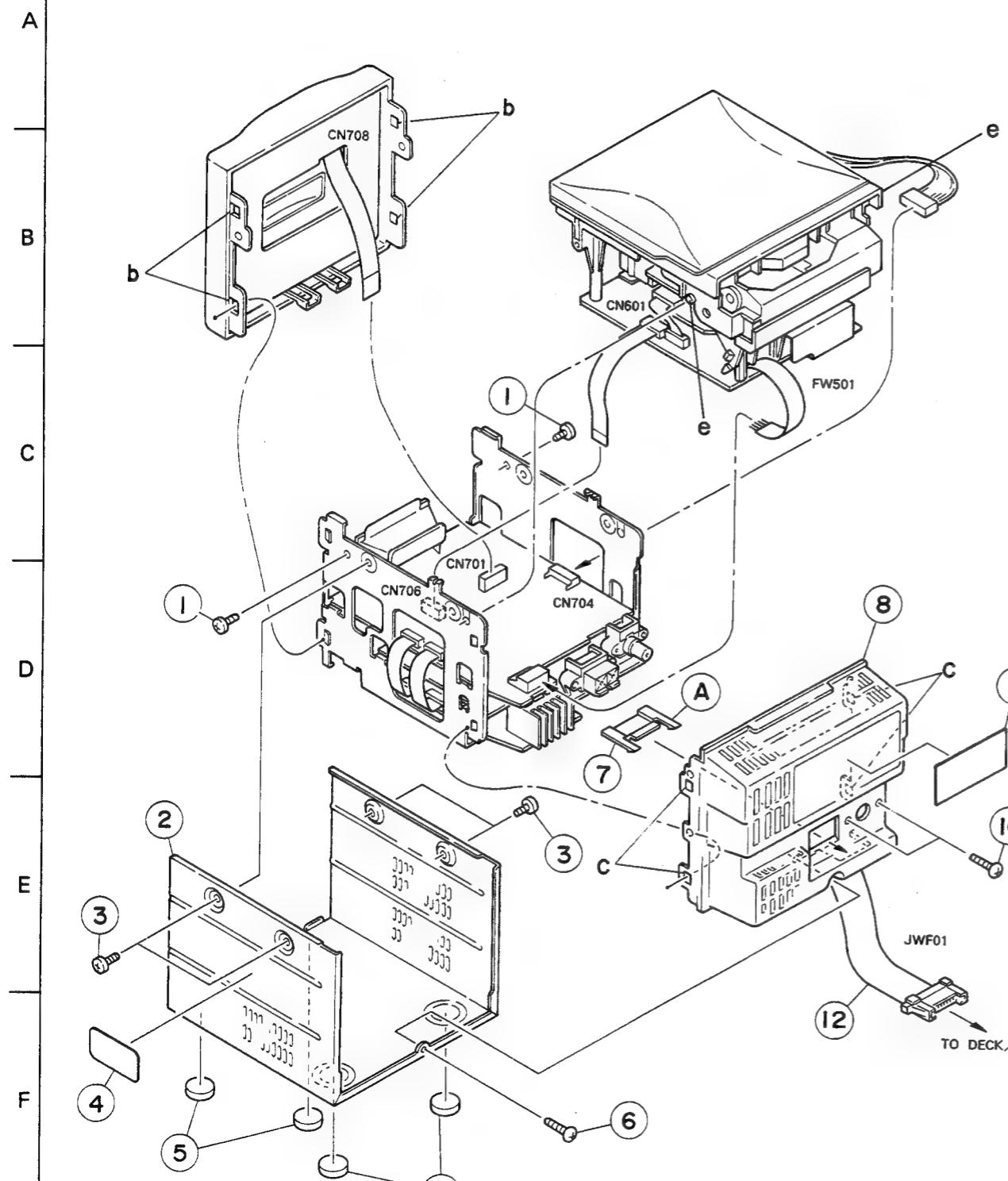


Fig. 7-8

■ Disassembly of CD Player Ass'y and Front Panel Ass'y

• Metal Cover (Fig. 7-8)

1. Remove the four screws ③ retaining the metal cover from the body.
2. Remove the one screw ⑥ retaining the metal cover from the back surface of the body.
3. Dismount the metal cover while expanding it outward.

• Front Panel Ass'y (Fig. 7-8)

From the connector CN701 on the LCD microcomputer P.C. board, remove the card wire outgoing from the connector CN708 on the operation key switch P.C. board attached to the front panel ass'y, and separate the card wire from the front panel ass'y.

• CD Player Ass'y (Fig. 7-8 ~ 11)

1. After turning the body upside down, insert a minus screw driver into the hole ④ engaging the system wire inserting wire holder and the rear cover, and disengage the holder and cover. Then, dismount the wire holder while pulling it out.
2. Remove the two screws ⑩ retaining the rear panel from the body.
3. After inserting a minus screw driver between the four engagement points ⑤ fixing the rear cover, release the engagements and separate the rear cover from the body.
4. After inserting a minus screw driver between the front panel and chassis, release the four engagement points ⑥ fixing the front panel ass'y, and separate the front panel ass'y from the body.
5. Remove the two screws ① retaining both sides of the CD player ass'y from the chassis.
6. After expanding the right and left sides of the chassis outward, release the right and left engagements ⑦ of the CD player ass'y and chassis, and separate the CD player ass'y from the body.

7. From the connector CN704 on the LCD microcomputer P.C. board, dismount the door switch P.C. board attached to the CD player ass'y and the #6PIN connector outgoing from the door motor P.C. board.

8. From the connector CN706 on the LCD microcomputer P.C. board, dismount the card wire outgoing from the connector CN601 on the CD amplifier P.C. board attached to the CD player ass'y.

9. From the connector CN705 on the LCD microcomputer P.C. board, dismount the #PIN parallel wire outgoing from FW501 on the CD amplifier P.C. board.

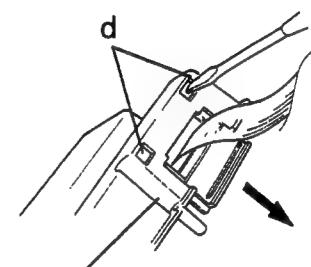
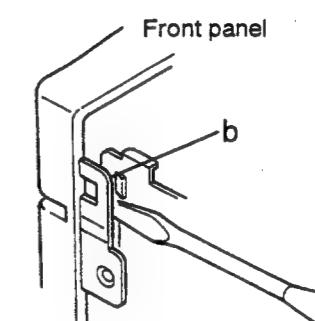


Fig. 7-9

Fig. 7-10

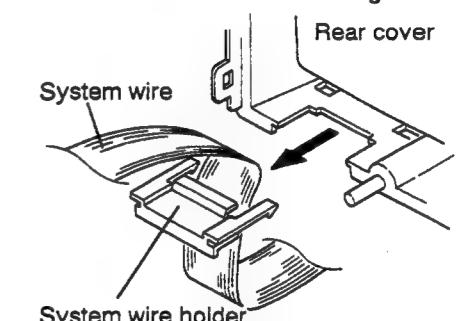


Fig. 7-11

■ Analytic Drawing (3) Parts List M 3

BLOCK NO. M3MM						
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	1	SDFS3008Z	SCREW	CD+CHASSIS UNIT	2	
	2	VJC2411-004	METAL COVER		1	
	3	SDST3006M	SCREW	METAL COVER	4	
	4	VND4221-001	CLASS 1 LABEL		1	
	5	VJF4003-003	FOOT		4	
	6	SBSF3008N	T.SCREW		1	
	7	VYH7707-001	WIRE HOLDER	SYSTEM WIRE 94H	1	
	8	VJG1137-001	REAR PANEL(T)		1	
	9	VYN9214-001	NAME PLATE		1	
	10	SBSF3008N	T.SCREW		1	
	11	EMV7130-017	WIRE HOLDER	FOR SYSTEM WIRE	1	
	12	VMP0092-001	SYSTEM WIRE ASY	JWF01	1	

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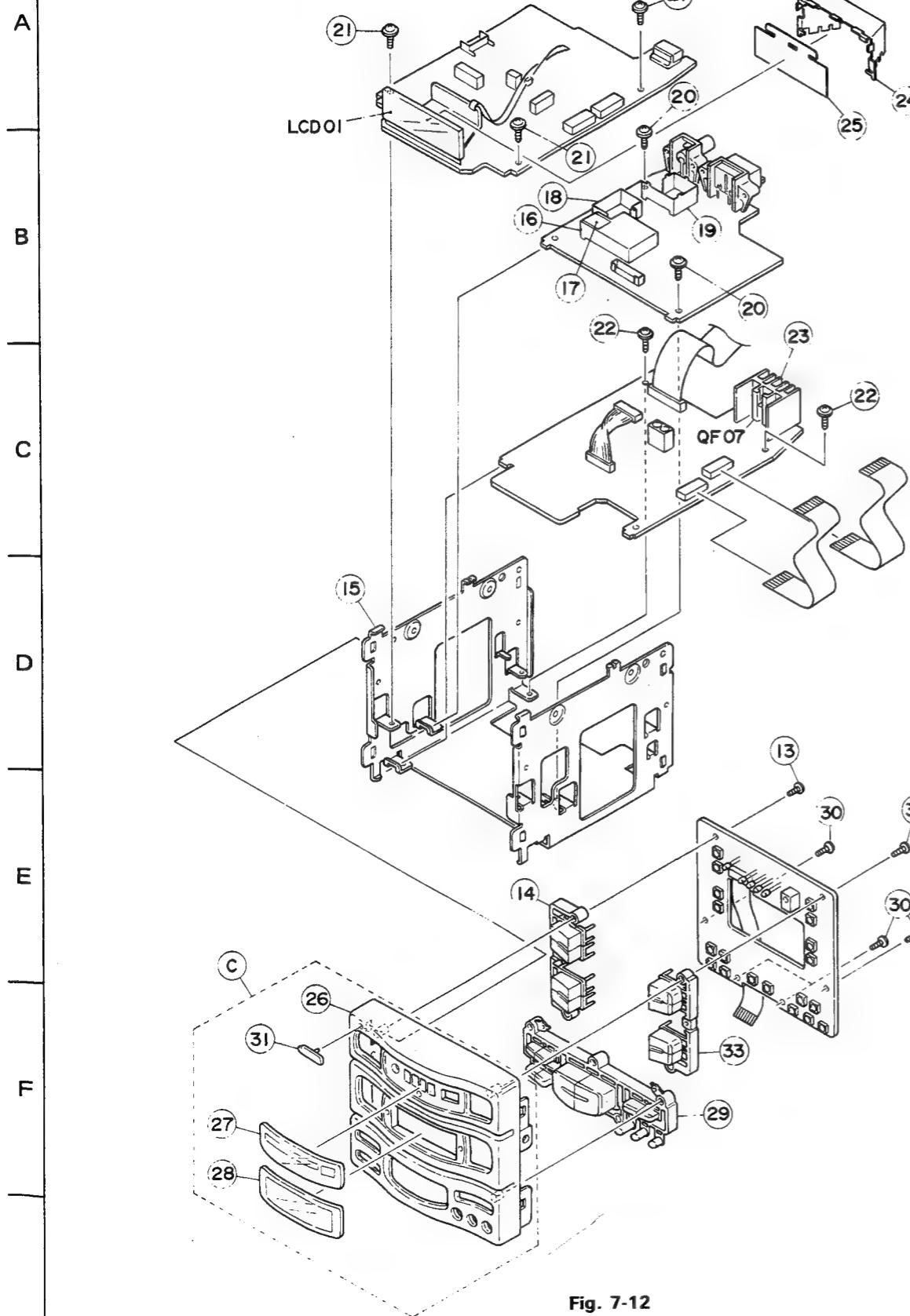
■ Analytic Drawing (4): Block No. M4

Fig. 7-12

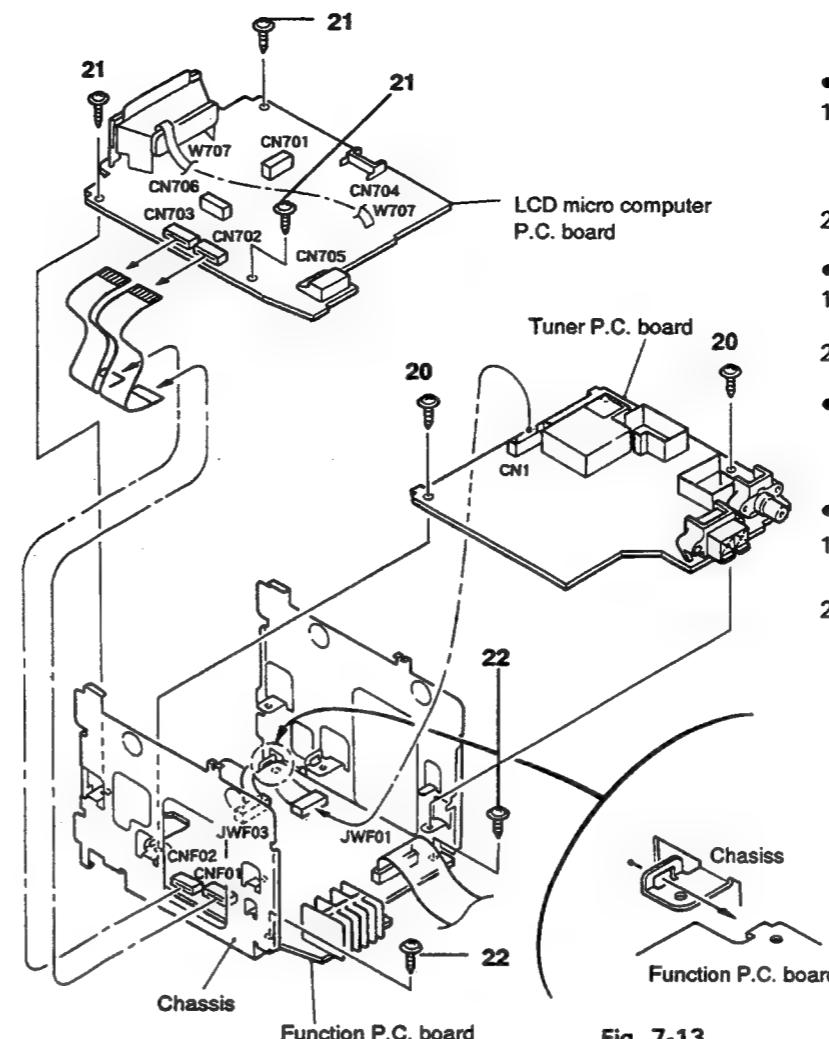
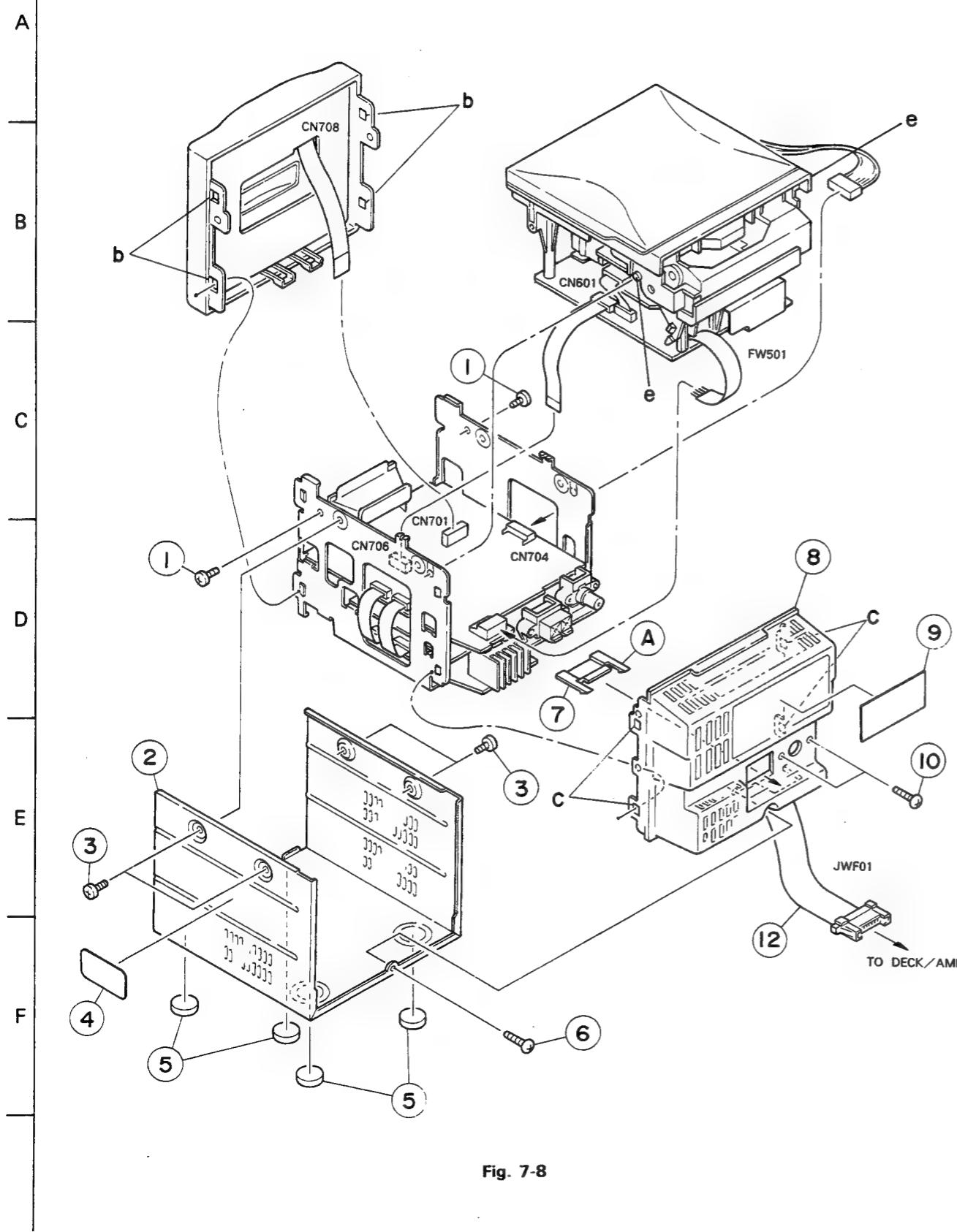


Fig. 7-13

■ Analytic Drawing (4) Parts List

BLOCK NO. M4MM						
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
C	ZCUXRA4K-FB	FRONT CABINET	REF.26-28,31	1		
13	SBSF2610Z	SCREW		1		
14	VXP3618-002	BUTTON(A)		1		
15	VYH2269-002	CHASSIS		1		
16	VMA4561-001	SHIELD CASE		1		
17	PU59915-105	SPACER		1		
18	VMA4522-001	SHIELD(B)		1		
19	VMA4521-001	SHIELD(A)		1		
20	GBST3006Z	SCREW	TU PWB+CHASSIS	2		
21	GBST3006Z	SCREW	CPU PWB+CHASSIS	3		
22	GBST3006Z	SCREW	FUNC PWB+CHASSI	2		
23	VYH7734-001	HEAT SINK	QF07	1		
24	VYH3784-001	LAMP CASE	SPTE	1		
25	VYTT635-001	LCD FILTER	カクサン イロタシヨウ	1		
26	VJG1237-001	FRONT PANEL(T)		1		
27	VJK4403-002	REMOTE LENS	AS SILKX4	1		
28	VJK4404-002	LCD LENS	AS SILKX2	1		
29	VXP3601-001	VOLUME BUTTON	ABS	1		
30	SBSF2610Z	SCREW	VOLUME BUTTON	4		
31	E406971-221	JVC MARK	22.5W	1		
32	SBSF2610Z	SCREW	FOR BOTTOM(B)	1		
33	VXP3619-002	BUTTON(B)	ABS	1		
LCD01	VGL1146-001	LCD		1		

1 2 3 4 5

■ Analytic Drawing (3): Block No. M 3**■ Disassembly of CD Player Ass'y and Front Panel Ass'y****• Metal Cover (Fig. 7-8)**

1. Remove the four screws ③ retaining the metal cover from the body.
2. Remove the one screw ⑥ retaining the metal cover from the back surface of the body.

3. Dismount the metal cover while expanding it outward.

• Front Panel Ass'y (Fig. 7-8)

From the connector CN701 on the LCD microcomputer P.C. board, remove the card wire outgoing from the connector CN708 on the operation key switch P.C. board attached to the front panel ass'y, and separate the card wire from the front panel ass'y.

• CD Player Ass'y (Fig. 7-8 ~ 11)

1. After turning the body upside down, insert a minus screw driver into the hole ④ engaging the system wire inserting wire holder and the rear cover, and disengage the holder and cover. Then, dismount the wire holder while pulling it out.
2. Remove the two screws ⑩ retaining the rear panel from the body.

3. After inserting a minus screw driver between the four engagement points ⑤ fixing the rear cover, release the engagements and separate the rear cover from the body.
4. After inserting a minus screw driver between the front panel and chassis, release the four engagement points ⑥ fixing the front panel ass'y, and separate the front panel ass'y from the body.

5. Remove the two screws ① retaining both sides of the CD player ass'y from the chassis.
6. After expanding the right and left sides of the chassis outward, release the right and left engagements ⑨ of the CD player ass'y and chassis, and separate the CD player ass'y from the body.

7. From the connector CN704 on the LCD microcomputer P.C. board, dismount the door switch P.C. board attached to the CD player ass'y and the #6PIN connector outgoing from the door motor P.C. board.

8. From the connector CN706 on the LCD microcomputer P.C. board, dismount the card wire outgoing from the connector CN601 on the CD amplifier P.C. board attached to the CD player ass'y.

9. From the connector CN705 on the LCD microcomputer P.C. board, dismount the #6PIN parallel wire outgoing from FW501 on the CD amplifier P.C. board.

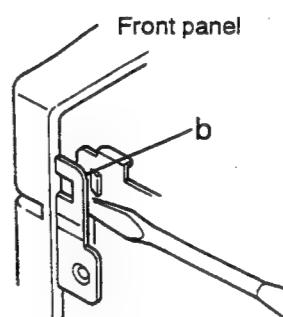


Fig. 7-9

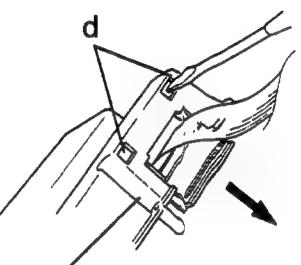


Fig. 7-10

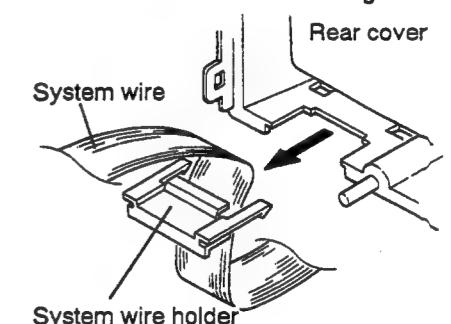


Fig. 7-11

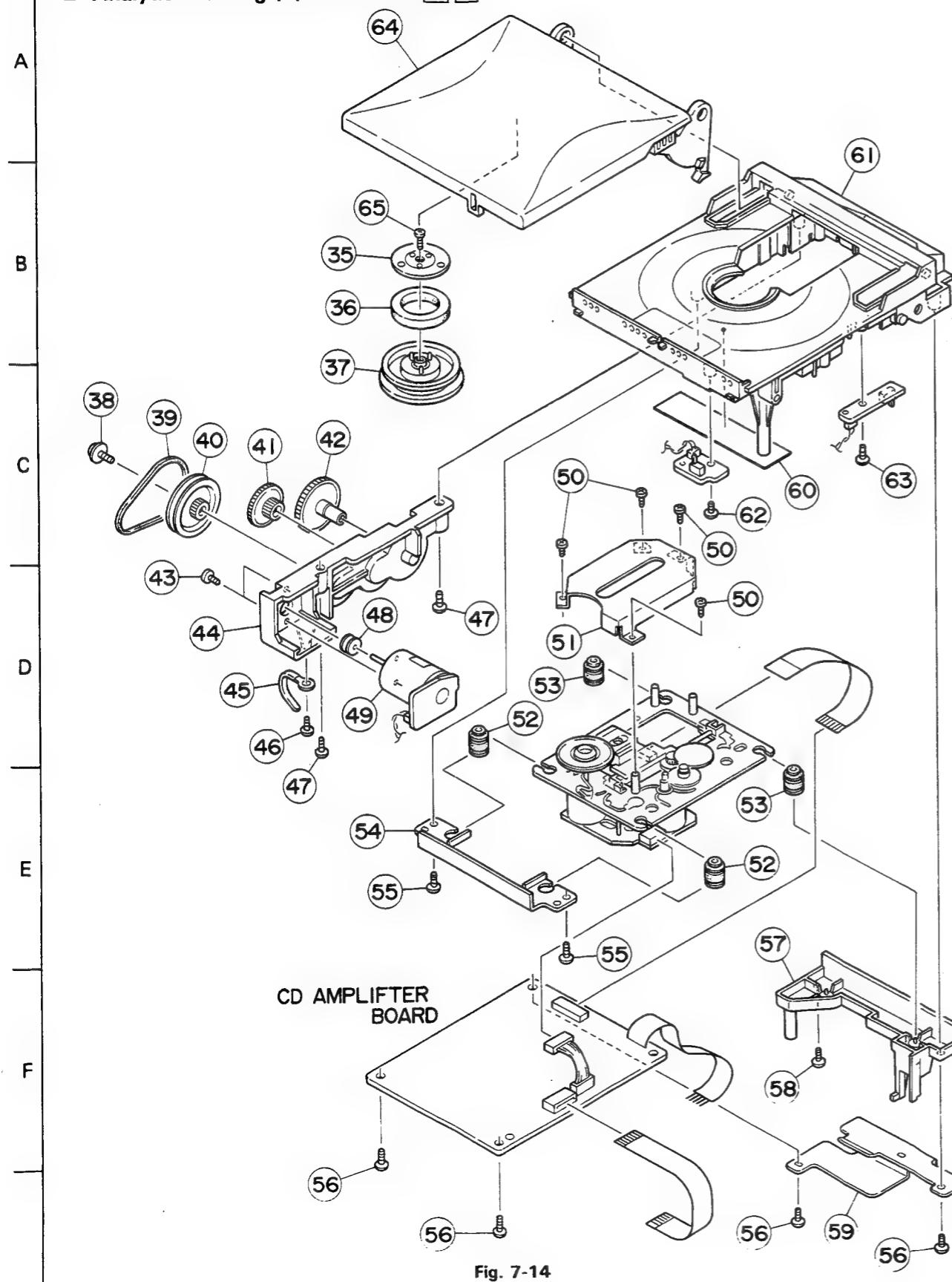
■ Analytic Drawing (3) Parts List M 3

BLOCK NO. M3MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	SDSF3008Z	SCREW	CD+CHASSIS UNIT	2		
	2	VJC2411-004	METAL COVER		1		
	3	SDST3006M	SCREW	METAL COVER	4		
	4	VND4221-001	CLASS 1 LABEL		1		
	5	VJF4003-003	FOOT		4		
	6	SBSF3008N	T-SCREW		1		
	7	VYH7707-001	WIRE HOLDER	SYSTEM WIRE 94H	1		
	8	VJG1137-001	REAR PANEL(T)		1		
	9	VYN9214-001	NAME PLATE		1		
	10	SBSF3008N	T-SCREW		1		
	11	EMV7130-017	WIRE HOLDER	FOR SYSTEM WIRE	1		
	12	VMP0092-001	SYSTEM WIRE ASY	JWF01	1		

1 | 2 | 3 | 4 | 5

■ Analytic Drawing (5): Block No. M 5



■ Analytic Drawing (5) Parts List

BLOCK NO. M5MM						
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
35	VYH7677-201	YOKE		1		
36	VYH7313-001R	MAGNET		1		
37	VYH7326-001	CLAMPER		1		
38	GBSF3006Z	SCREW	PULLEY+GEAR BKT	1		
39	VKB3000-144Y	BELT		1		
40	VYH7356-002	PULLEY		1		
41	VYH7357-001	GEAR(A)		1		
42	VYH7358-001	GEAR(B)		1		
43	SPSP3004Z	SCREW	MOTOR+GEAR BKT	2		
44	VYH7385-001	GEAR BKT		1		
45	VKZ4001-110	WIRE CLAMP		1		
46	SBSF3010Z	SCREW	FOR WIRE CLAMP	1		
47	SBSF3010Z	SCREW	CD CASE+GEAR BK	2		
48	VYH7699-001	PULLEY	MOTOR	1		
49	MXN-13FB12F	DC MOTOR ASS'Y	CASSETTE DOOR	1		
50	SDST2006M	SCREW	CD MECHA+P.COVE	4		
51	VJD5410-005	PICK COVER		1		
52	E75609-002	INSULATOR		2		
53	E75609-001	INSULATOR		2		
54	VYH7815-001	CD MECHA HOLDER		1		
55	SBSF3010Z	SCREW	CASE+HOLDER	2		
56	SBSF3010Z	SCREW	CD AMP PWB+CD	4		
57	VYH7390-001	CD MECHA HOLDER		1		
58	SBSF3010Z	SCREW	CASE+HOLDER	1		
59	VMA3215-001	SHIELD(CD)	FOR CD MECHA WIR	1		
60	VND4220-001	LASER CAUTION		1		
61	VJD1177-001	CD CASE		1		
62	SBSF3006Z	SCREW	SW PWB+CD CASE	1		
63	SBSF3010Z	SCREW	SW-PWB*CD CASE	1		
64	VJT2328-001	CD DOOR		1		
65	SBSF2606Z	SCREW	FOR CLAMPER	1		

• **CD Amplifier P.C. Board (Fig. 7-14, 15)**

1. Remove the three screws 56 retaining the CD amplifier P.C. board from the CD player ass'y.
2. From the optical pickup unit P.C. board, pull out the card wire outgoing from the connector CN501 on the CD amplifier P.C. board.
3. From the connector P011 on the spindle feed motor P.C. board, dismount the #6PIN connector outgoing from the connector CN502 on the CD amplifier P.C. board.

• **CD Mechanism Ass'y (Fig. 7-14, 16)**

By removing the three screws (55 × 2 and 58 × 1) simultaneously retaining the CD mechanism, rear and front brackets, separate the CD mechanism ass'y (from the brackets).

• **CD Door Motor Ass'y (Fig. 7-14, 16 ~ 18)**

Insert a minus screw driver into the positions (h) and (i) when the right and left CD door assemblies and CD cases are engaged, and dismount the CD door assemblies.

• **CD Door Motor Ass'y (Fig. 7-14, 16)**

Remove the two screws 47 retaining the CD door assemblies from the CD cases.

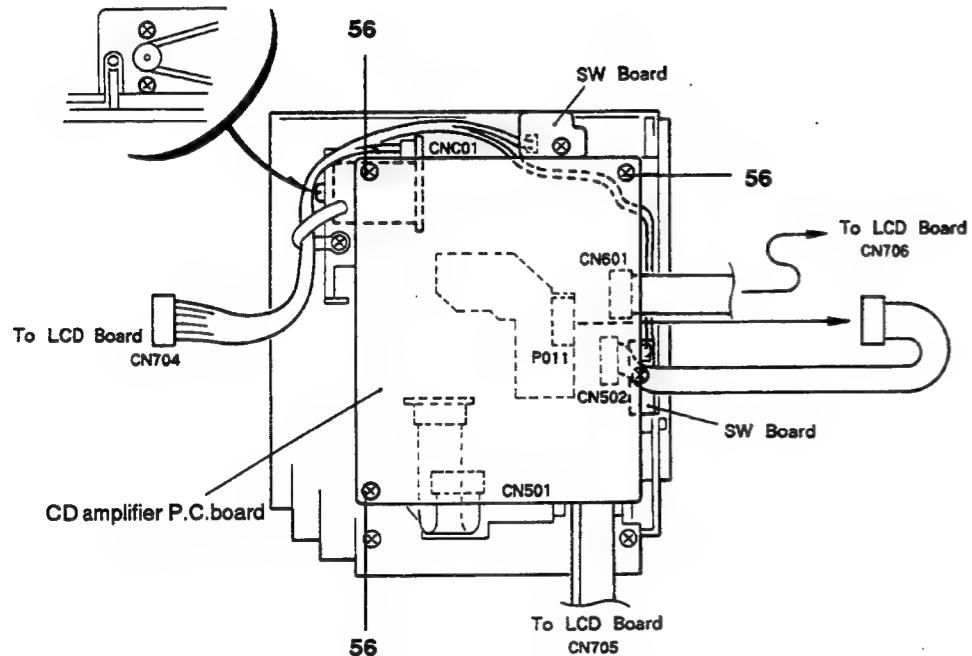


Fig. 7-15

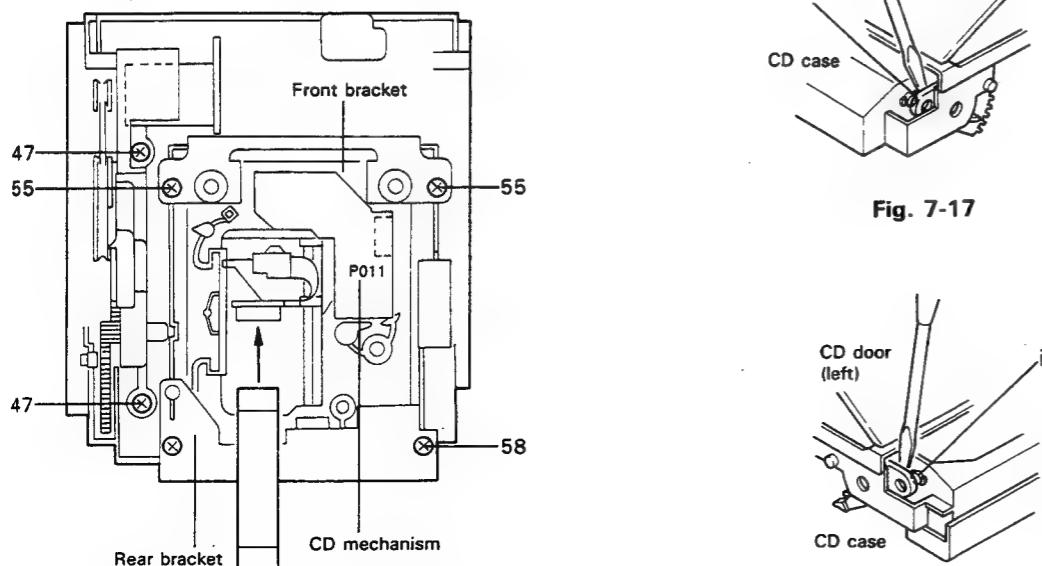


Fig. 7-16

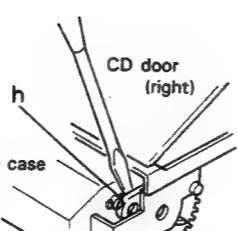


Fig. 7-17

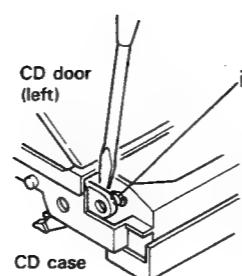


Fig. 7-18

■ CD/Tuner Section

Color codes are shown below.

- 1 Brown
- 2 Red
- 3 Orange
- 4 Yellow
- 5 Green
- 6 Blue
- 7 Violet
- 8 Gray
- 9 White
- 0 Black
- D Pink
- C Light Blue

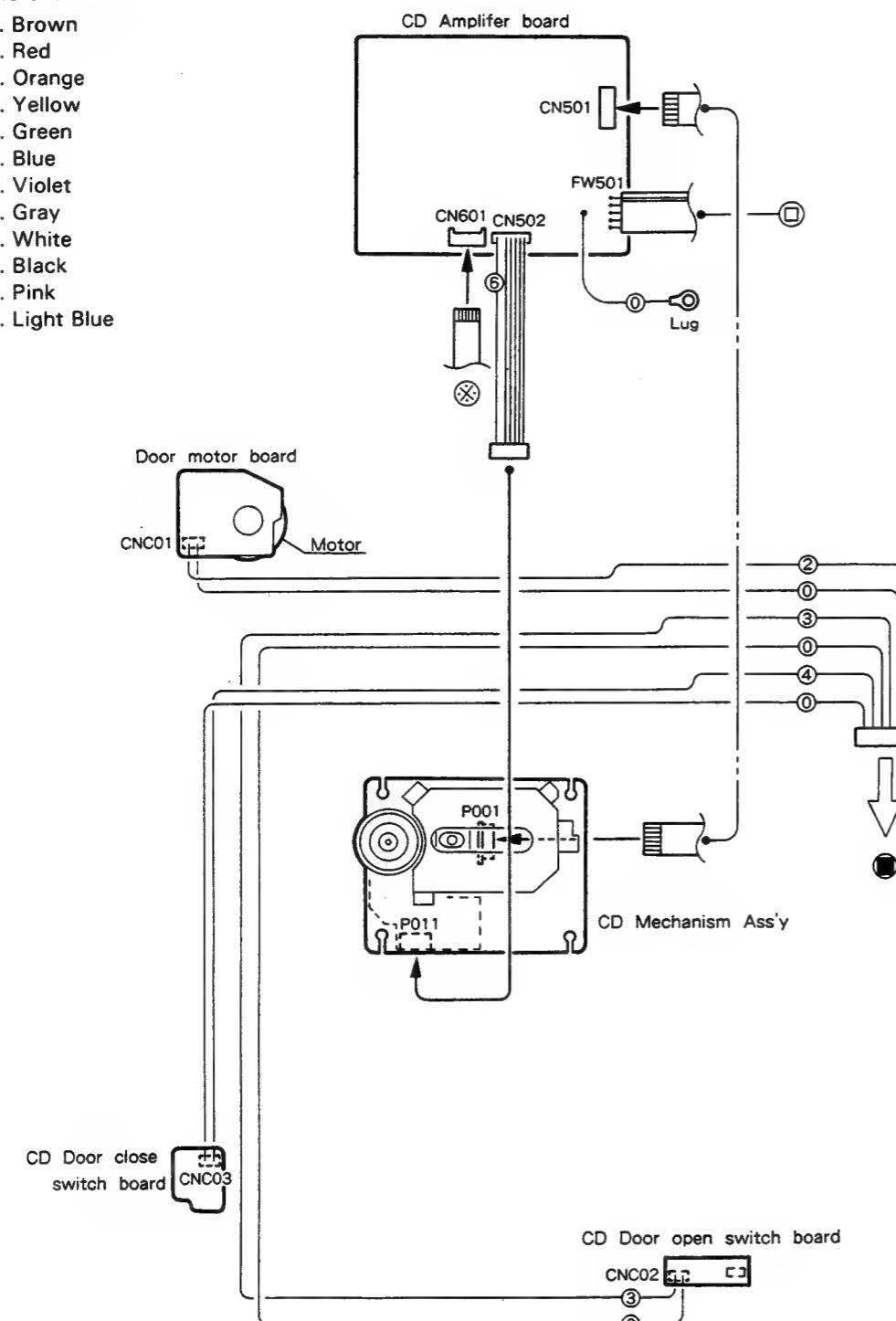


Fig. 10-2

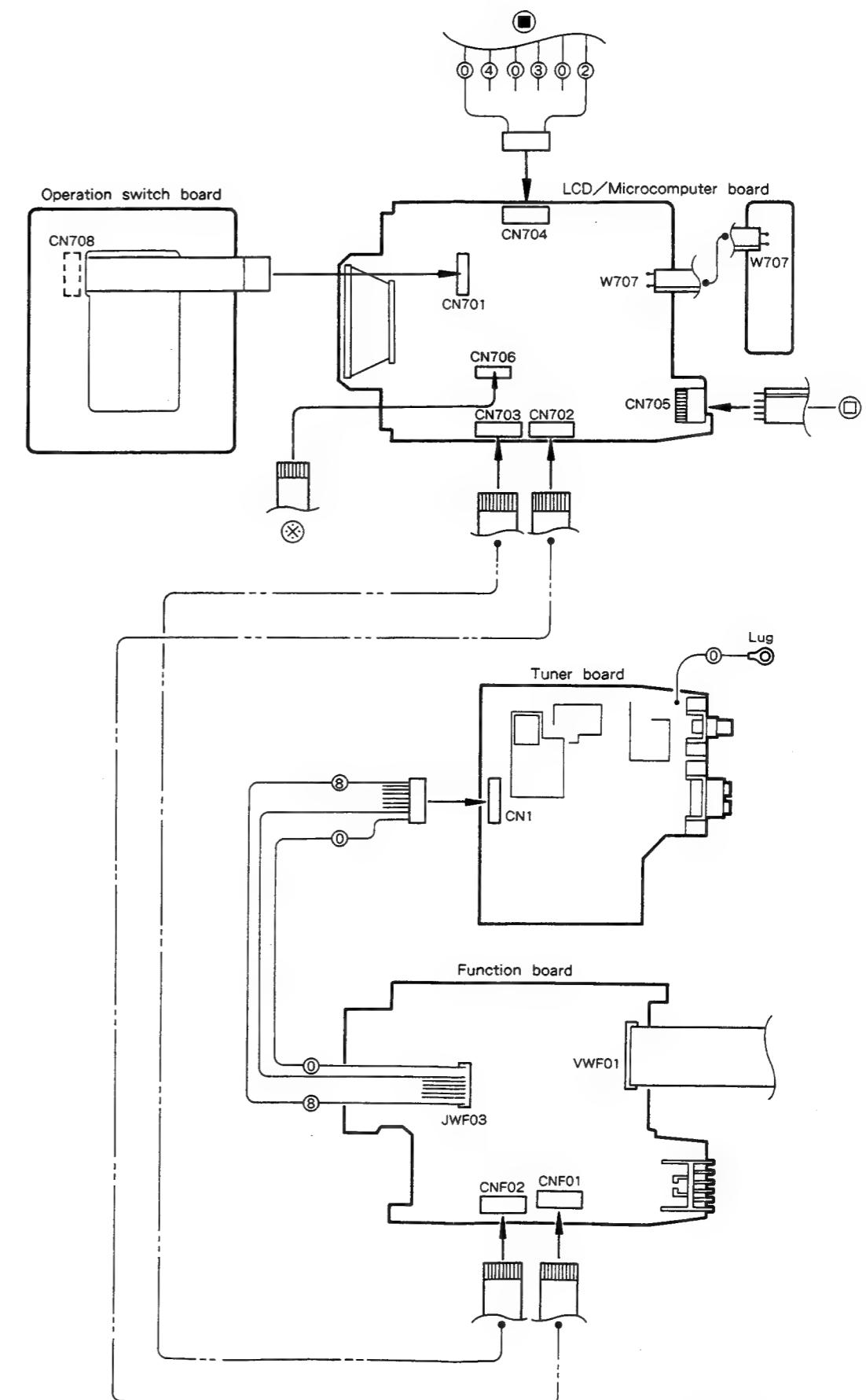
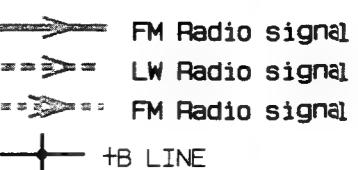
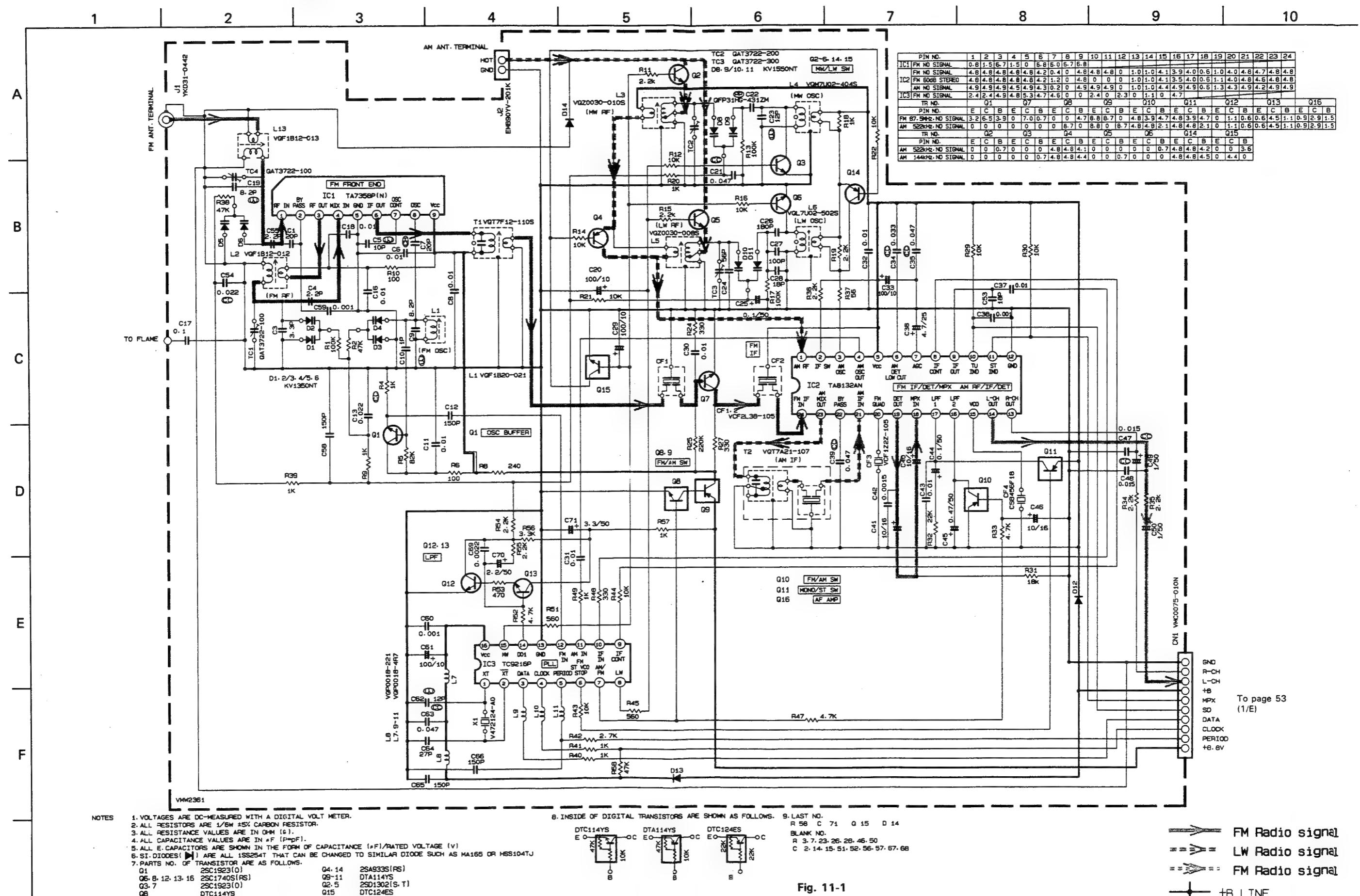


Fig. 10-3

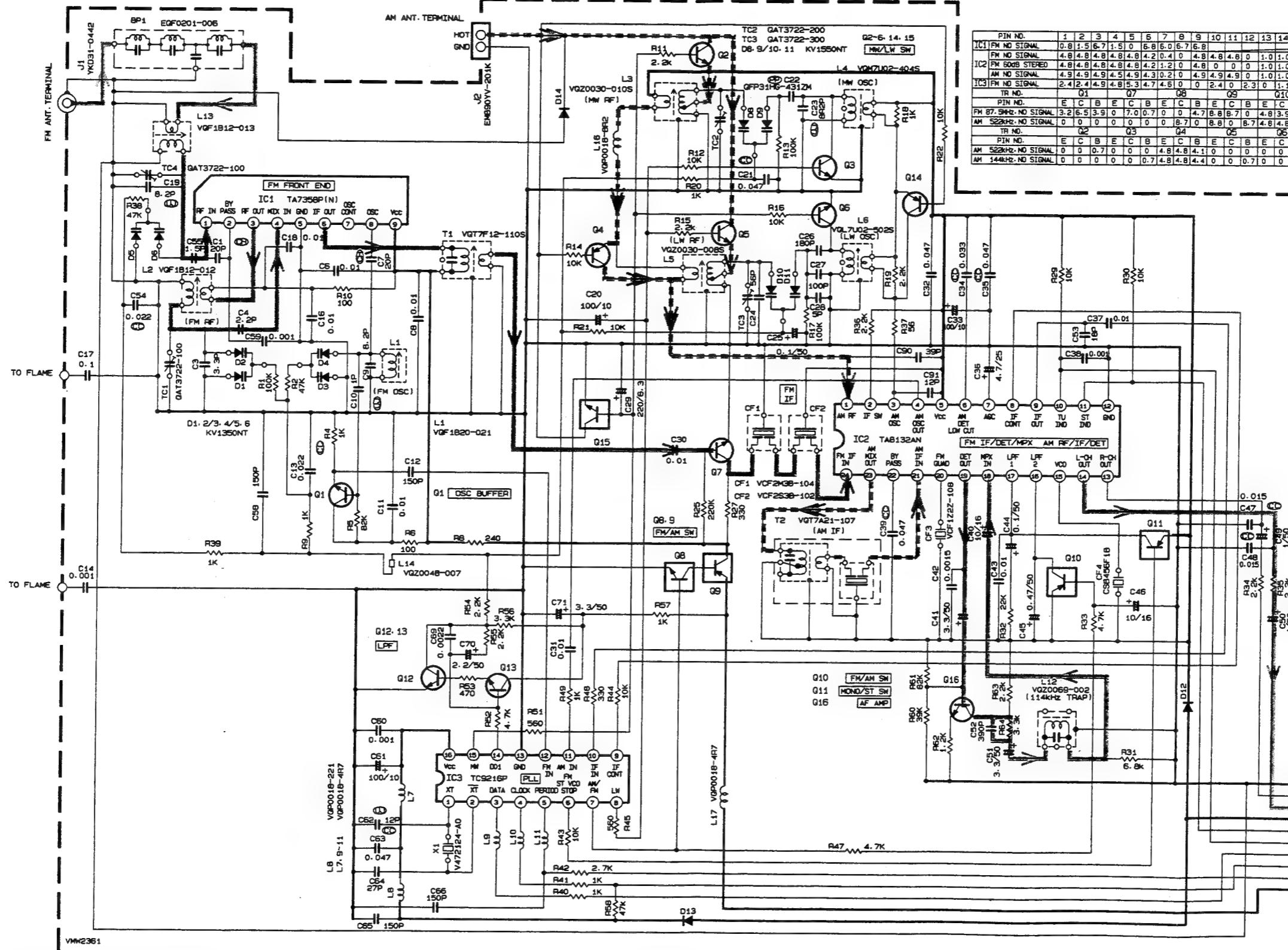
11. Standard Schematic Diagram ■ Tuner Circuit: Drawing No. VDH9214-005TW (UX-A4 B/E/EN)



8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
9. LAST NO.
R 56 C 71 Q 15 D 14
BLANK NO.
R 3-7, 23-26, 28-46, 50
C 2-14-15-51-52-55-57-67-68

■ Tuner Circuit: Drawing No. VDH9214-008TW (UX-A4 G/GI)

11 12 13 14 15 16 17 18 19 20



PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1 FM NO SIGNAL	0.8	1.5	6.7	1.5	0	6.8	6.6	6.7	6.8															
FM NO SIGNAL	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
IC2 FM 600Hz STEREO	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
AM NO SIGNAL	4.9	4.9	4.9	4.5	4.9	4.5	4.9	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	
IC3 FM NO SIGNAL	2.4	2.4	4.9	4.8	5.3	4.7	6.0	0	2.4	0	2.3	0	1.1	0	4.7	0	0	0	0	0	0	0	0	
TR NO.	01																							
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1 FM NO SIGNAL	0.8	1.5	6.7	1.5	0	6.8	6.6	6.7	6.8															
FM NO SIGNAL	3.2	6.5	3.9	0	7.0	0.7	0	0	4.7	B.8	B.7	0	4.8	3.9	4.7	4.8	3.9	4.7	0	1.1	0.6	4.5	1.1	0.9
AM 522kHz NO SIGNAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR NO.	02																							
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
AM 522kHz NO SIGNAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM 344kHz NO SIGNAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

A

B

C

D

E

F

To page 53
(1/E)

GND

R-CH

L-CH

MPX

SD

DATA

CLOCK

PERIOD

+6.8V

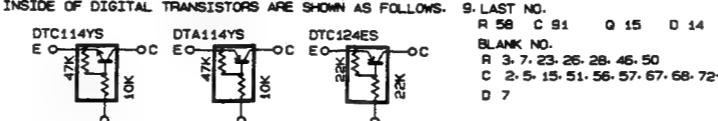
- ==> LW Radio signal
- ==> MW Radio signal
- ==> FM Radio signal
- +> +B LINE

Fig. 11-2

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
 - ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
 - ALL RESISTANCE VALUES ARE IN OHM (Ω).
 - ALL CAPACITANCE VALUES ARE IN μF (PF).
 - ALL C CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
 - SI DIODES (■) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104TJ.
 - PARTS NO. OF TRANSISTOR ARE AS FOLLOWS:
- | | | | |
|--------------------|--------------|-------|--------------|
| Q1-3, 7 | 2SC2668(0) | Q4-14 | 2SA1175(HFE) |
| Q6-8, 12-13, 15-16 | 2SC2785(E,F) | Q9-11 | DTA114YS |
| Q8 | DTA114YS | Q2-5 | 2SD1302(S,T) |
| Q15 | DTC114YS | Q16 | DTC124ES |

B. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



C. LAST NO.

R 58 C 91 Q 15 D 14

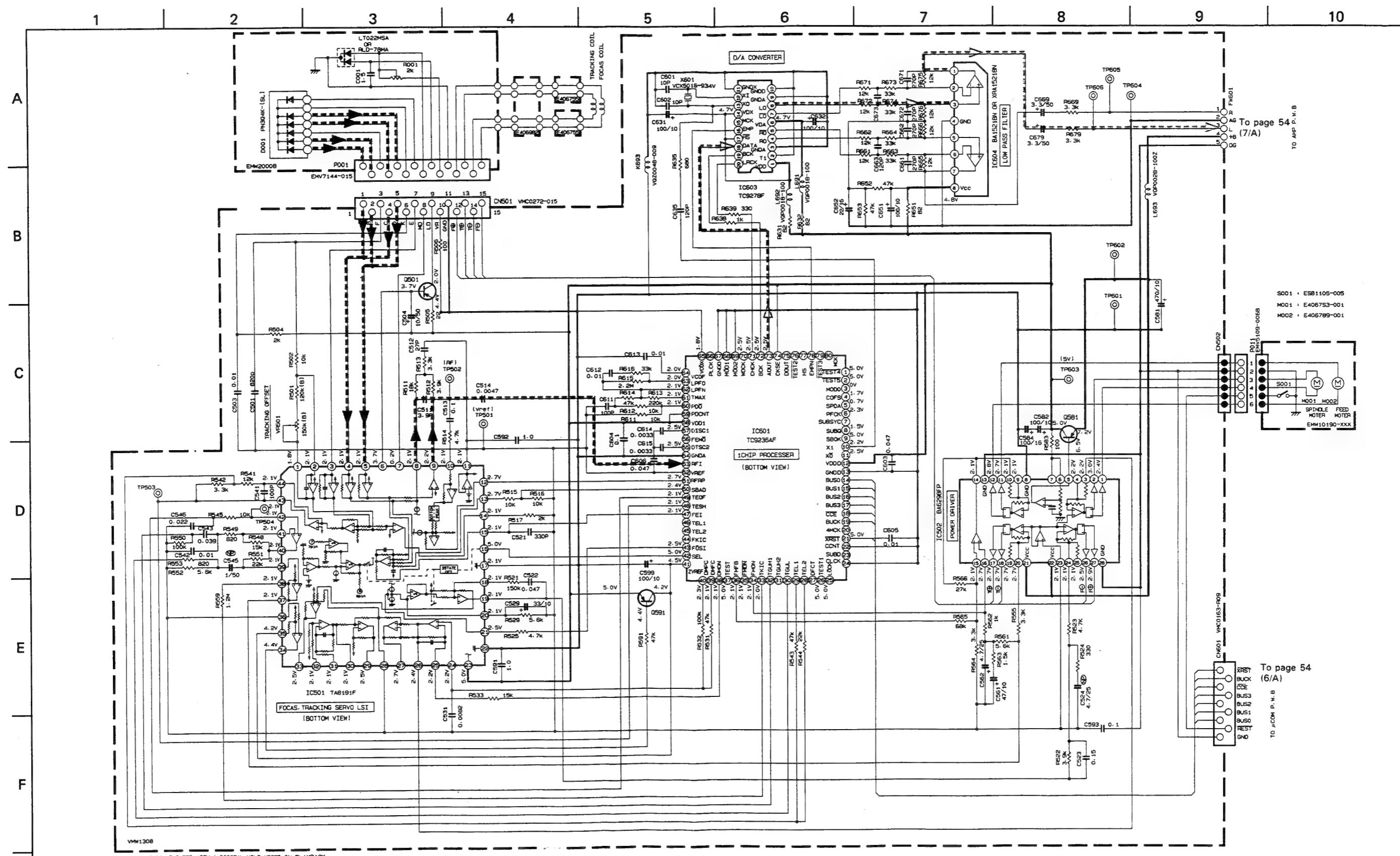
BLANK NO.

R 3-7, 23-26, 46, 50

C 2-5, 15, 51, 56, 57, 67, 68, 72-89

D 7

■ CD Amplifier Circuit: Drawing No. VDH9214-005CV (All version)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W $\pm 5\%$ CARBON RESISTOR.

ALL RESISTANCE VALUES ARE IN OHM(Ω).

ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.

ALL CAPACITANCE VALUES ARE IN μ F(F^{-1}).

ALL INDUCTANCE VALUES ARE IN μ H(H^{-1}).

ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).

- (F) UNFLAMMABLE CARBON RESISTOR
- (G) METAL FILM RESISTOR
- (H) OXIDE METAL FILM RESISTOR
- (I) ±20% LOW LEAK CURRENT ELECTROLYTIC
- (J) NON-POLARISED ELECTROLYTIC
- (K) POLYPROPYLENE CAPACITOR
- (L) POLYSTYROL CAPACITOR

Q501	2SA952(L,K)
Q581	
Q591	2SA1309(R,S) OR 2SA1175(HFE) OR 2SA933(SRS)

(No. 1890) 52

Fig. 11-3

--->-- CD Digital signal
--->-- CD Analog signal
+----+ B LINE

■ Function/Line Amplifier Circuit: Drawing No. VDH9214-005BV

1 2 3 4 5 6 7 8 9 10

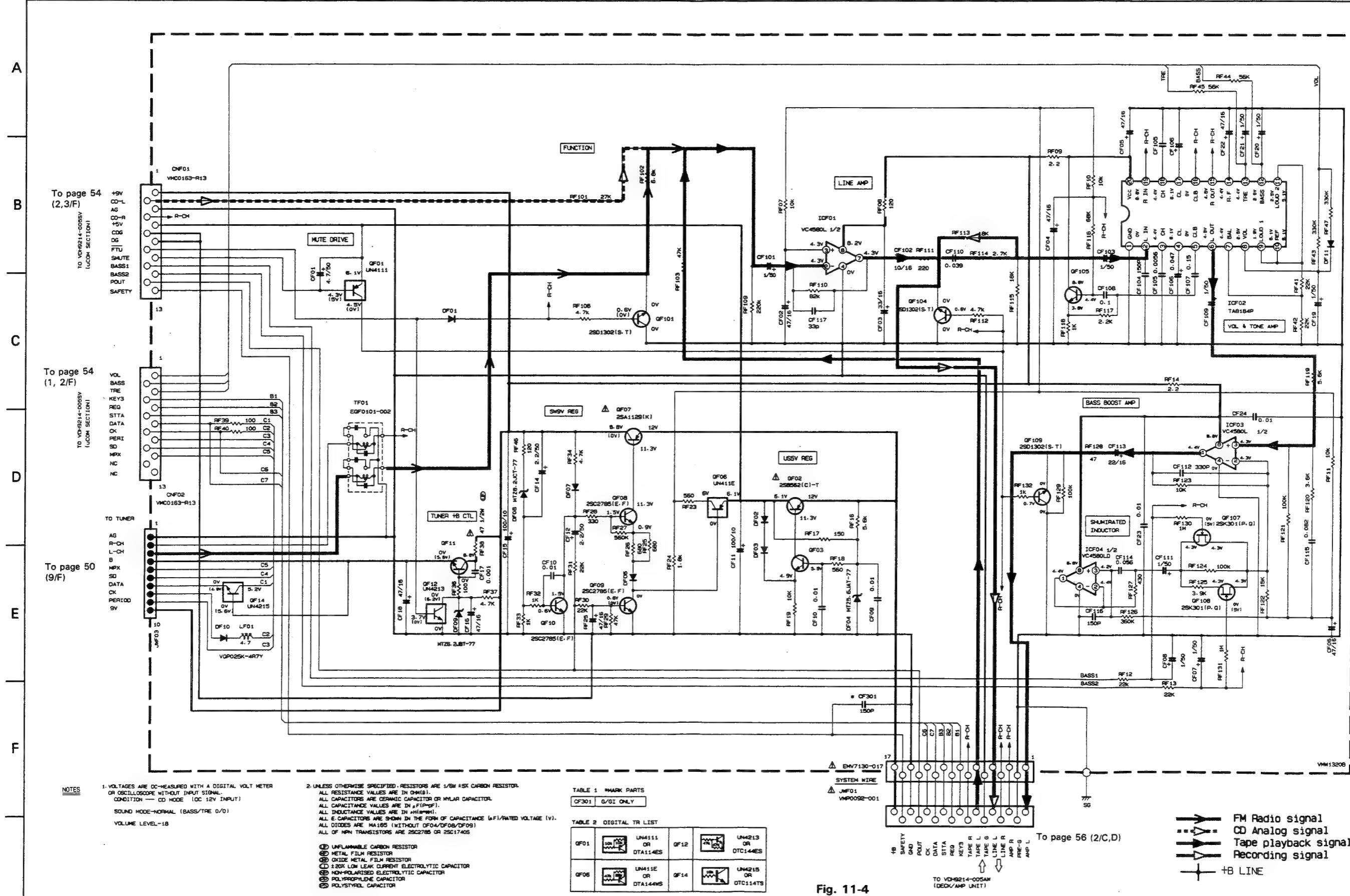


Fig. 11-4

■ LCD/Micro Computer Circuit: Drawing No. VDH9214-005SV (All version)

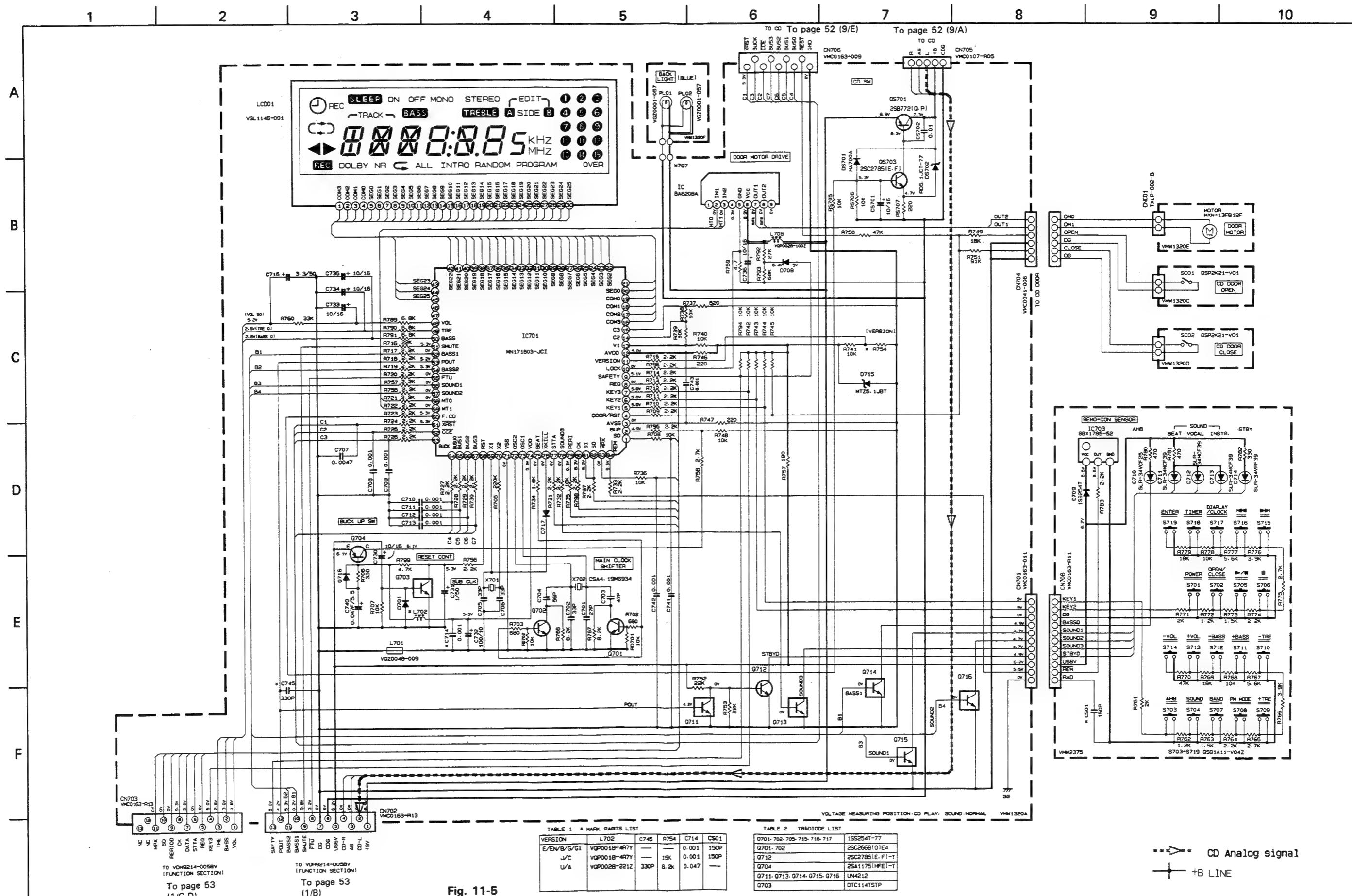


Fig. 11-5

■ Pre-Amplifier Circuit: Drawing No. VDH9214-005PV (All version)

11

12

13

14

15

16

17

18

19

20

A

B

C

D

E

F

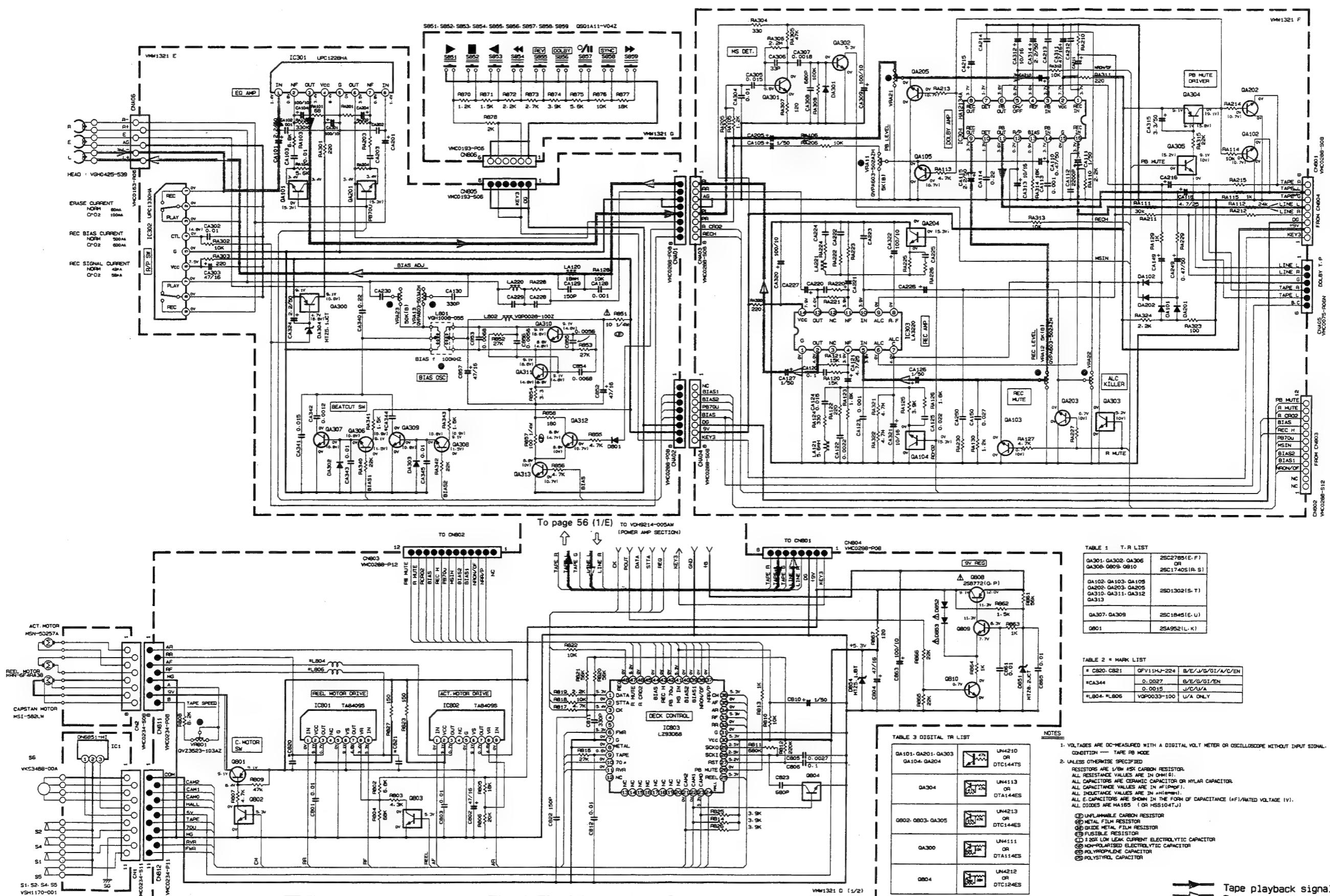


Fig. 11-6

■ Power Supply/Power Amplifier Circuit: Drawing No. VDH9214-005AW (All version)

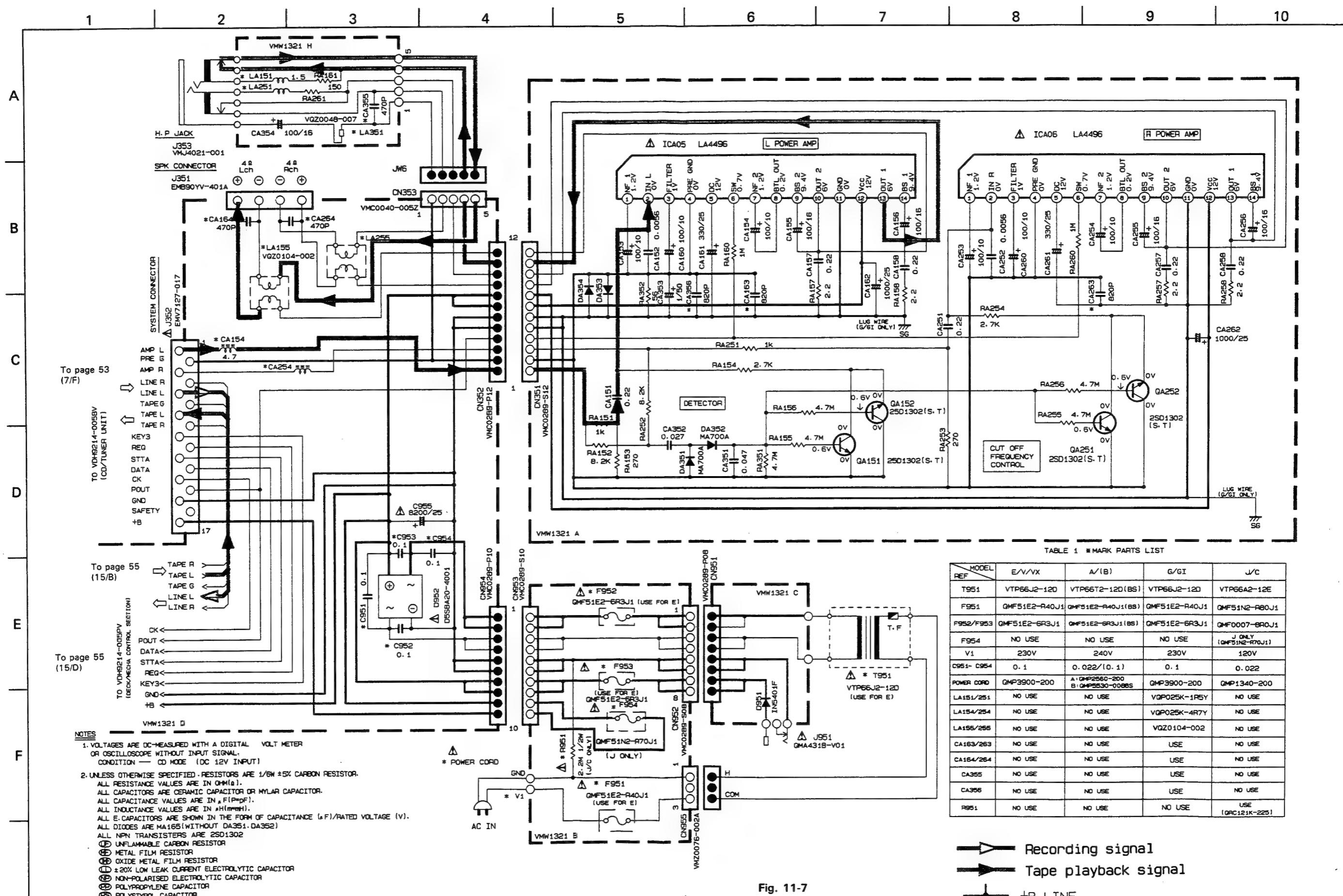


Fig. 11-7

12. Location of P.C. Board Parts

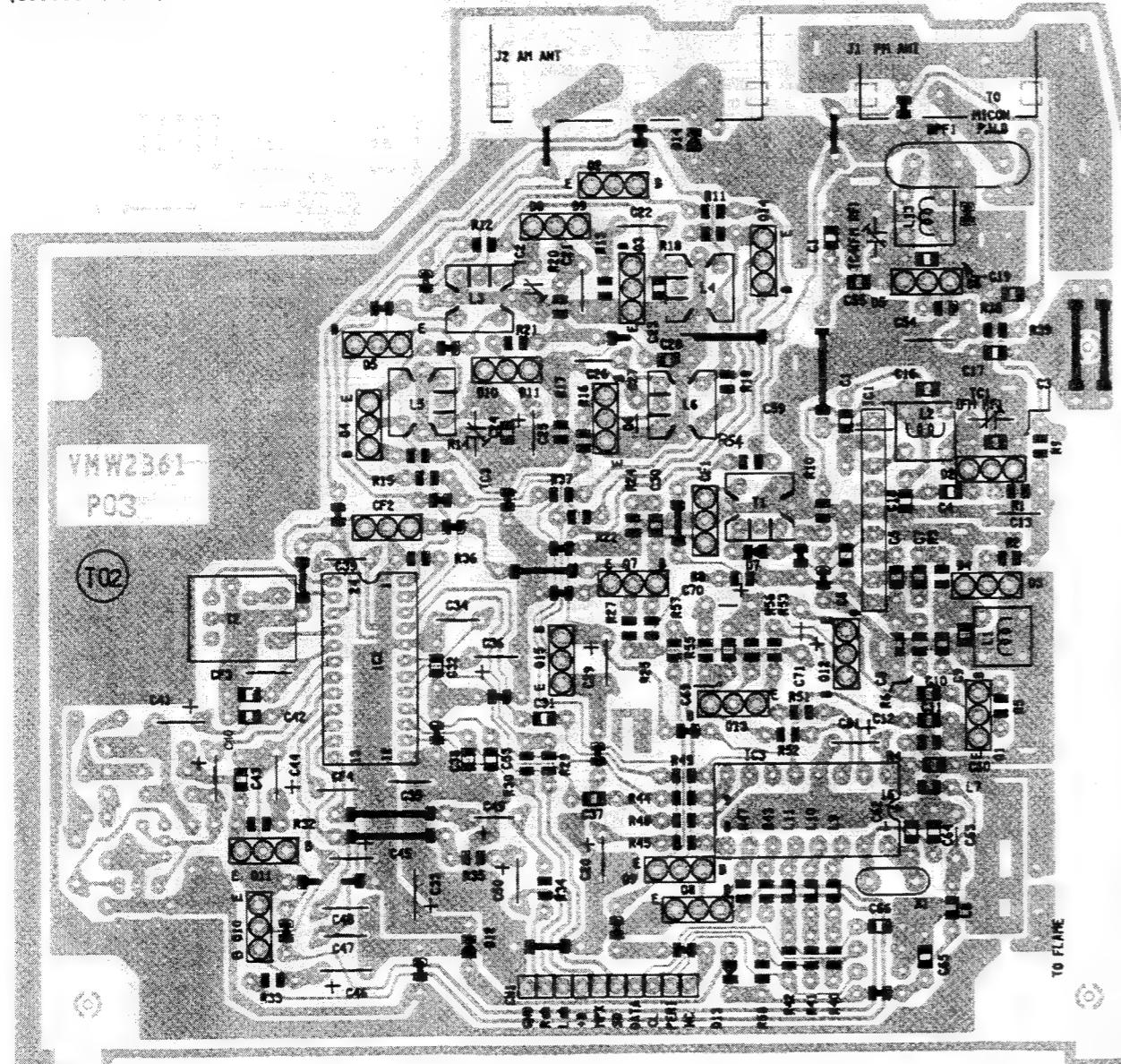
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

CD/Tuner Section

■ Tuner P.C. Board: Drawing No. VMW2361, Block No. 0 9

A

(UX-A4 B/E/EN)



B

(UX-A4 G/GI)

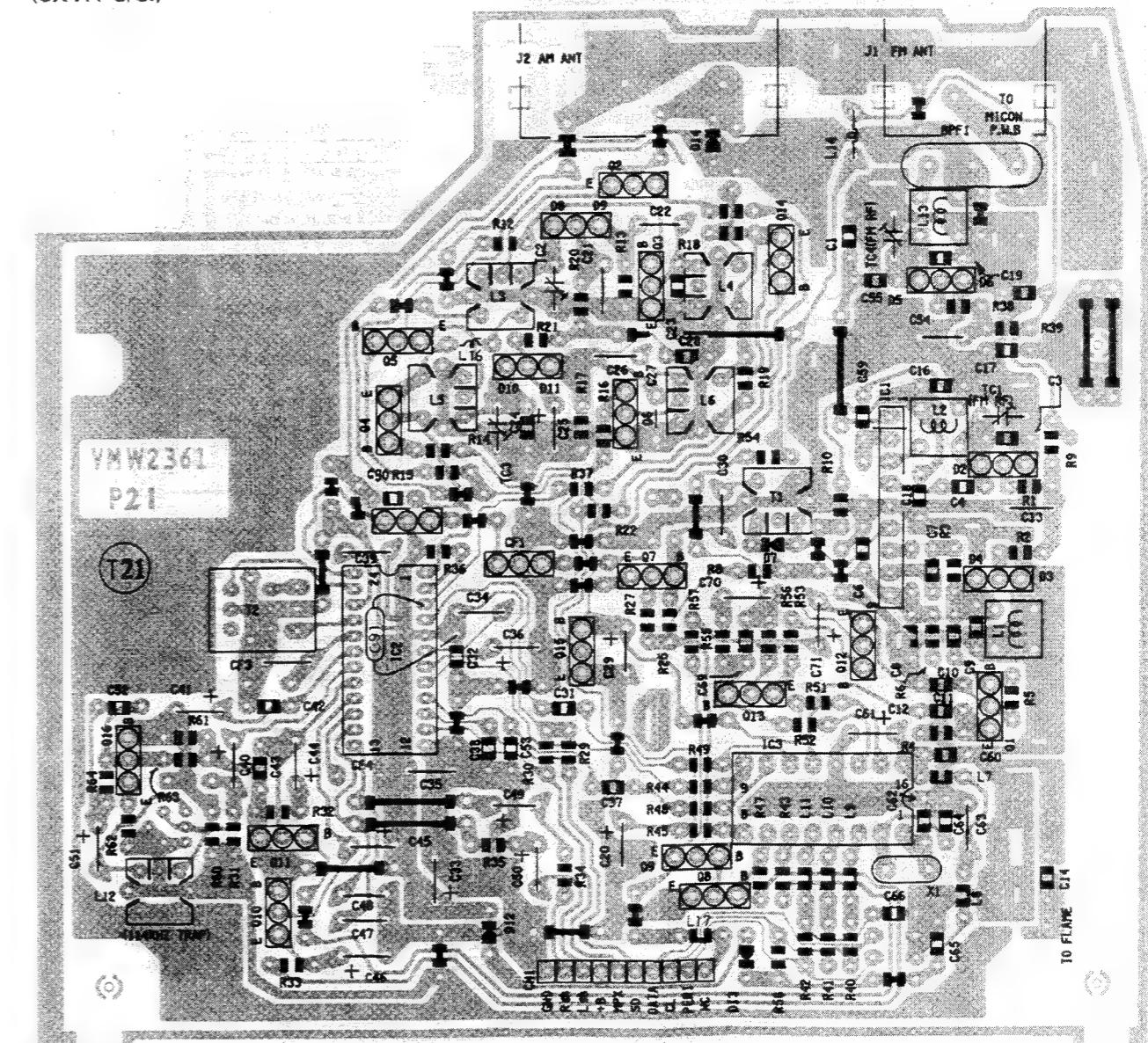


Fig. 12-1

Fig. 12-2

1 2 3 4 5 6 7 8 9 10

■ LCD/Micro Computer P.C. Board: Drawing No. VMW1320A, Block No. 0 5

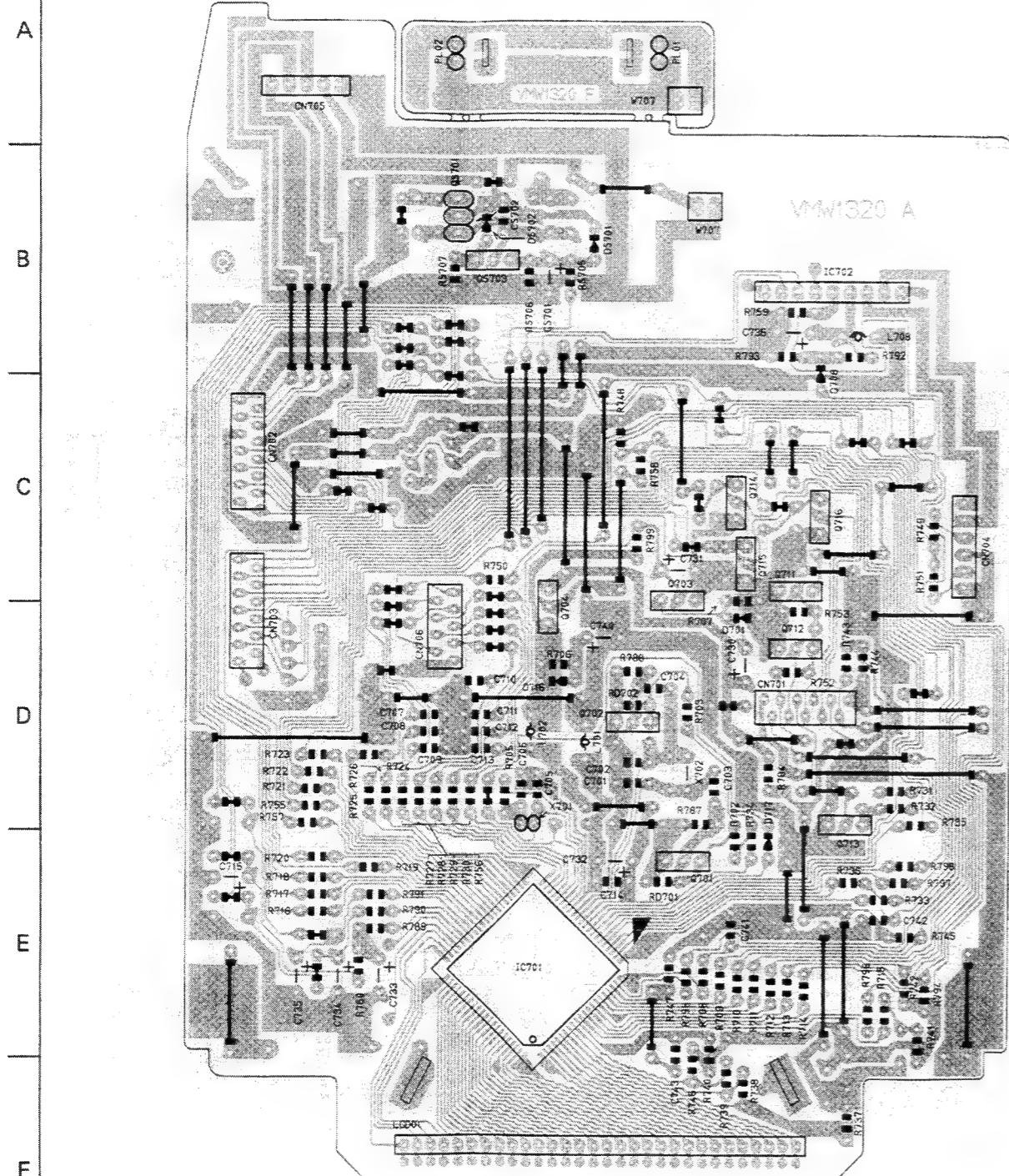


Fig. 12-3

■ CD Door Motor P.C. Board:
Drawing No. VMW1320E
Block No. 0 5

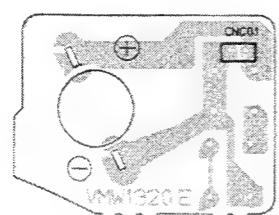


Fig. 12-4

■ Function P.C. Board: Drawing No. VMW1320B, Block No. 0 6

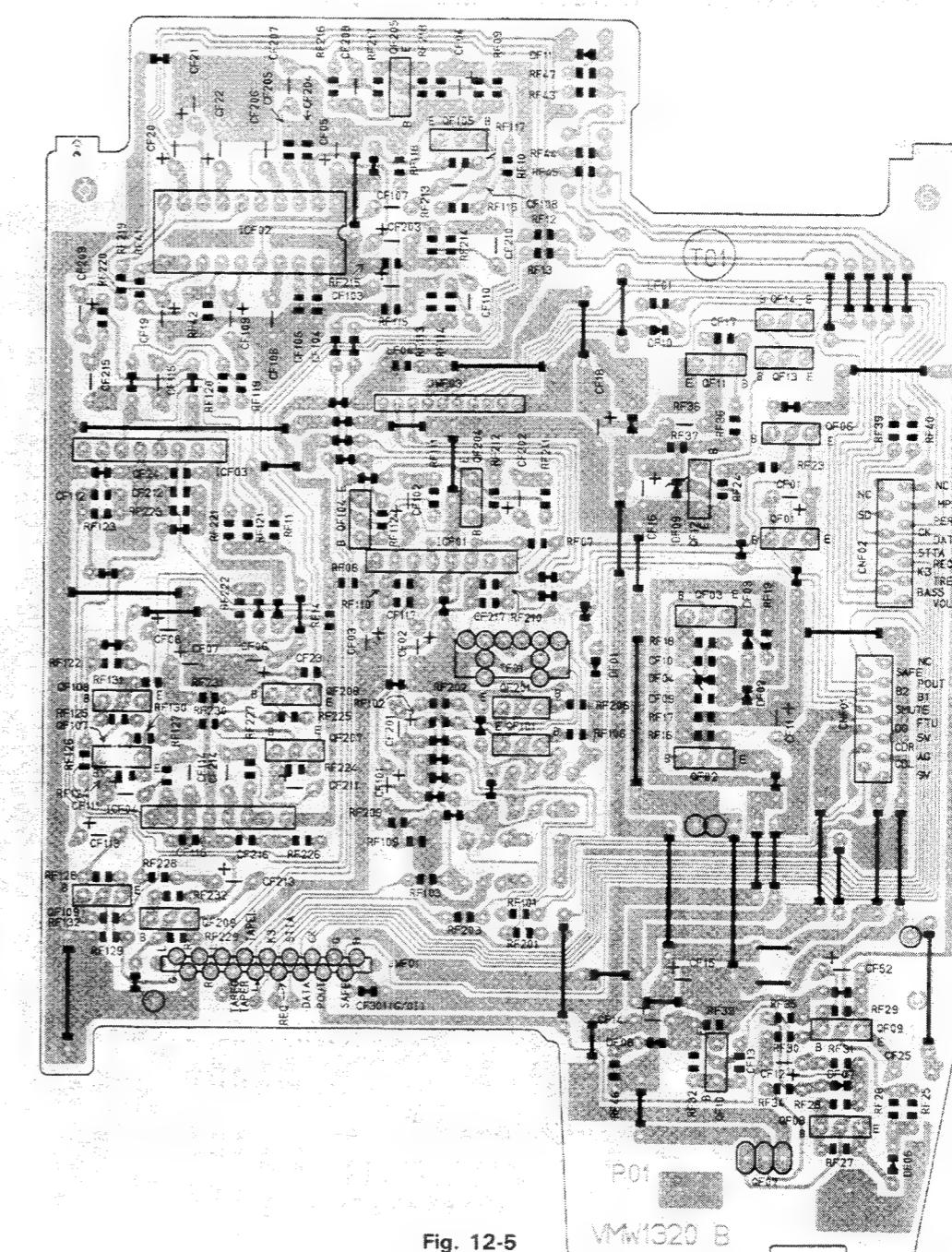


Fig. 12-5

■ CD Door Close Switch
P.C. Board
: Drawing No. VMW1320D
Block No. 0 5

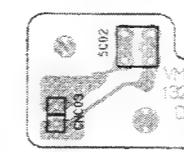


Fig. 12-6

■ CD Door Open Switch
P.C. Board
: Drawing No. VMW1320C
Block No. 0 5

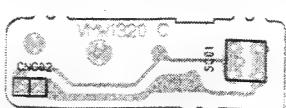


Fig. 12-7

13. Electrical Parts

1 | 2 | 3 | 4 | 5

■ Leaf Switch P.C. Board: Drawing No. VMW1312A

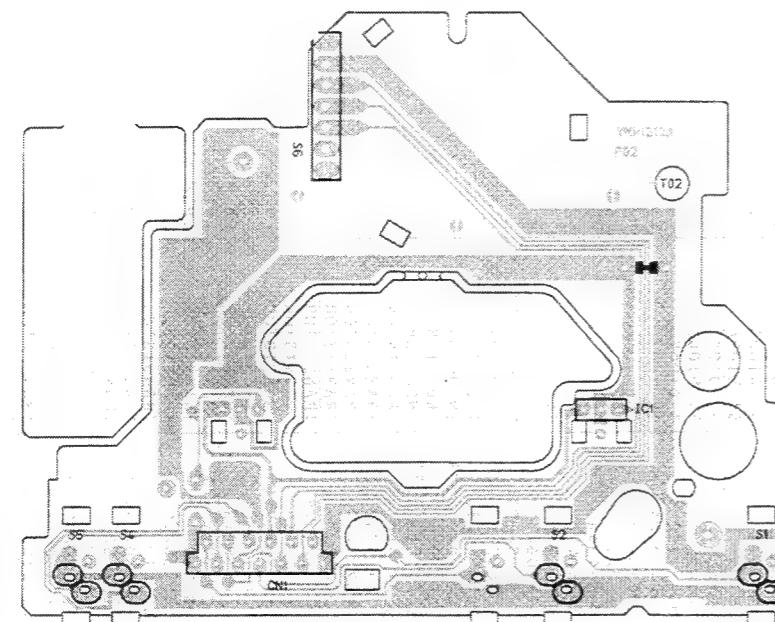


Fig. 12-17

■ Actuator/Reel Motor P.C. Board: Drawing No. VMW1312B

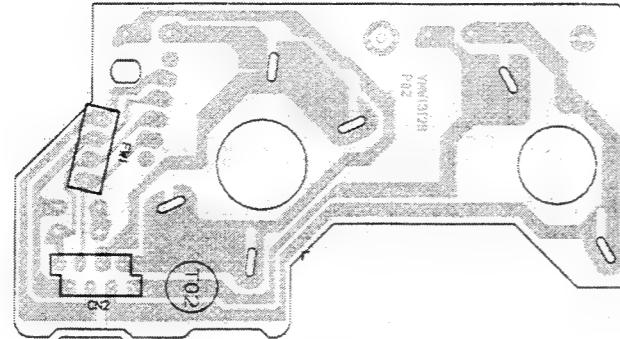


Fig. 12-18

● Power Supply P.C. Board

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [01][11][1]
A	C 951	QFV41HJ-104	TF CAPACITOR	*10MF 5X 50V		
A	C 952	QFV41HJ-104	TF CAPACITOR	*10MF 5X 50V		
A	C 953	QFV41HJ-104	TF CAPACITOR	*10MF 5X 50V		
A	C 954	QFV41HJ-104	TF CAPACITOR	*10MF 5X 50V		
A	C 955	QETC1AM-1072N	E CAPACITOR	DECUP		
A	CN352	VMC0289-P12	CONNECTOR	10 CN351		
A	CN352	VMC0289-P12	CONNECTOR 1M	10 JW6		
A	CN352	VMC0289-P08	CONNECTOR 1M	2ND		
A	CN352	VMC0289-S08	CONNECTOR	2ND		
A	CN953	VMC0289-S10	CONNECTOR			
A	CN954	VMC0289-P10	CONNECTOR	1 ST		
A	CN955	VM20076-002A	CONNECTOR			
A	D 951	1N501F	SI DIODE			
A	D 952	D5SB120-4-001	SI DIODE			
A	J 354	EMB90YV-601A	SPK TERMINAL			
A	J 352	EMV727-07	CONN. TERMINAL			
A	J 951	QMA4316-V01	DC JACK			
A	Q1151	QFV11HJ-1072N	ZENER DIODE			
A	DA351	MA700	ZENER DIODE			
A	DA352	MA700	ZENER DIODE			
A	DA353	MA165	SI DIODE			
A	DA354	MA165	SI DIODE			
A	IC1A05	LA4496	IC			
A	IC1A06	LA4496	IC			
A	QA1151	2SD1302(G,T)	TRANSISTOR			
A	QA1152	2SD1302(S,T)	TRANSISTOR			
A	QA251	2SD1302(S,T)	TRANSISTOR			
A	QA252	2SD1302(S,T)	TRANSISTOR			
A	RA151	QBD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
A	RA152	QBD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
A	RA153	QBD161J-271	CARBON RESISTOR	2.7K 5% 1/6W		
A	RA154	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
A	RA155	QRD161J-475	CARBON RESISTOR	4.7K 5% 1/6W		
A	RA156	QRD161J-775	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA157	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA158	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA160	QRD161J-195	CARBON RESISTOR	1.0M 5% 1/6W		
A	RA251	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
A	RA252	QRD161J-322	CARBON RESISTOR	2.2 5% 1/6W		
A	RA253	QRD161J-211	CARBON RESISTOR	2.2 5% 1/6W		
A	RA254	QRD161J-212	CARBON RESISTOR	2.70 5% 1/6W		
A	RA255	QRD161J-775	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA256	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA257	QRD161J-R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA258	QRD161J-R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA260	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W		
A	RA351	QRD161J-775	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA352	QRD161J-260	CARBON RESISTOR	5.6 5% 1/6W		

● Power Amplifier P.C. Board

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [02][11][1]
A	CA151	QFV21HJ-224	TF CAPACITOR	*22MF 5X 50V		
A	CA152	QCXB1CM-562Y	C CAPACITOR	5600PF 20X 16V		
A	CA153	QEKG1AM-1072N	E CAPACITOR	1000F 20X 10V		
A	CA155	QETC1AM-1072N	E CAPACITOR	1000F 20X 10V		
A	CA156	QETC1AM-1072N	E CAPACITOR	1000F 20X 16V		
A	CA157	QFV41HJ-224	TF CAPACITOR	*22MF 5X 50V		
A	CA158	QFV41HJ-224	TF CAPACITOR	*22MF 5X 50V		
A	CA160	QETC1AM-1072N	E CAPACITOR	1000F 20X 10V		
A	CA161	QETC1EM-3377N	E CAPACITOR	330MF 20X 25V		
A	CA251	QTB1CM-108N	TF CAPACITOR	1000MF 20X 25V		
A	CA252	QCXB1CM-562Y	C CAPACITOR	*22MF 5X 50V		
A	CA253	QEKG1AM-1072M	E CAPACITOR	1000F 20X 10V		
A	CA254	QETC1AM-1072N	E CAPACITOR	1000F 20X 10V		
A	CA255	QETC1CM-1072N	E CAPACITOR	1000F 20X 16V		
A	CA256	ETC1AM-1072N	TF CAPACITOR	*22MF 5X 50V		
A	CA257	QFV11HJ-224	TF CAPACITOR	*22MF 5X 50V		
A	CA258	QFV41HJ-224	TF CAPACITOR	*22MF 5X 50V		
A	CA260	QETC1AM-1072N	E CAPACITOR	1000F 20X 10V		
A	CA261	QETC1EM-3377N	E CAPACITOR	330MF 20X 25V		
A	CA262	QETC1EM-1072N	E CAPACITOR	1000MF 20X 25V		
A	CA263	QEKG1AM-1072N	E CAPACITOR	*22MF 5X 50V		
A	CA264	QFV81HJ-473	TF CAPACITOR	*22MF 5X 50V		
A	CA351	QFV81HJ-273AZM	TF CAPACITOR	*22MF 5X 50V		
A	CA352	QFV11HJ-105	E CAPACITOR	1.0MF 20X 50V		
A	CN351	UNCO289-S12	CONNECTOR	1Q CN352		
A	DA351	MA700	ZENER DIODE			
A	DA352	MA700	ZENER DIODE			
A	DA353	MA165	SI DIODE			
A	DA354	MA165	SI DIODE			
A	IC1A05	LA4496	IC	R-CH		
A	IC1A06	LA4496	IC	R-CH		
A	QA1151	2SD1302(G,T)	TRANSISTOR			
A	QA1152	2SD1302(S,T)	TRANSISTOR			
A	QA251	2SD1302(S,T)	TRANSISTOR			
A	QA252	2SD1302(S,T)	TRANSISTOR			
A	RA151	QBD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
A	RA152	QBD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
A	RA153	QBD161J-271	CARBON RESISTOR	2.7K 5% 1/6W		
A	RA154	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
A	RA155	QRD161J-475	CARBON RESISTOR	4.7K 5% 1/6W		
A	RA156	QRD161J-775	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA157	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA158	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA160	QRD161J-195	CARBON RESISTOR	1.0M 5% 1/6W		
A	RA251	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
A	RA252	QRD161J-322	CARBON RESISTOR	2.2 5% 1/6W		
A	RA253	QRD161J-211	CARBON RESISTOR	2.2 5% 1/6W		
A	RA254	QRD161J-212	CARBON RESISTOR	2.70 5% 1/6W		
A	RA255	QRD161J-775	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA256	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA257	QRD161J-R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA258	QRD161J-R2	CARBON RESISTOR	2.2 5% 1/6W		
A	RA260	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W		
A	RA351	QRD161J-775	CARBON RESISTOR	4.7M 5% 1/6W		
A	RA352	QRD161J-260	CARBON RESISTOR	5.6 5% 1/6W		

- Head Phone Jack P.C. Board

- Mechanism Control P.C. Board

UX-A4 B/E/G/GI/EN

UX-A4 B/E/G/GI/EN

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 801	QCVB1CM-103V	C CAPACITOR	.010MF 20% 16V	
C 802	QEKA1CM-476	E CAPACITOR	.47MF 20% 16V	
C 803	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
C 804	QEKA1CM-476	E CAPACITOR	.47MF 20% 16V	
C 805	QCXB1CM-272Y	C CAPACITOR	.2700PF 20% 16V	
C 806	QCFV41HJ-104V	C CAPACITOR	.10NF +80% -20%	
C 810	QEKA1HM-105	E CAPACITOR	1.0MF 20% 50V	
C 811	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
C 812	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
C 820	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
C 821	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
C 822	QCBB1HK-151Y	C CAPACITOR	1.50PF 10% 50V	
C 823	QCBB1HK-681Y	C CAPACITOR	.6800PF 10% 50V	
C 852	QEKA1CM-476	E CAPACITOR	.47MF 20% 16V	
C 853	QFLA1HK-6822M	M CAPACITOR	.6800PF 5% 50V	
C 854	QFLA1HK-6822M	M CAPACITOR	.6800PF 5% 50V	
C 855	QFLA1HK-5622M	M CAPACITOR	.5600PF 5% 50V	
C 856	QFLA1HK-5622M	M CAPACITOR	.5600PF 5% 50V	
C 857	QEKA1CM-476	E CAPACITOR	.47MF 20% 16V	
C 861	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
C 862	QEKA1HM-1072H	E CAPACITOR	.100MF 20% 10V	
C 865	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
CA101	QEKA1HM-225	E.CAPA.	2.2MF 20% 50V	
CA102	QCBB1HK-102Y	C CAPACITOR	.1000PF 10% 50V	
CA103	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
CA104	QEKA1HM-1072M	E CAPACITOR	.100MF 20% 10V	
CA105	QEKA1HM-105	E CAPACITOR	1.0MF 20% 50V	
CA110	QEKA1HM-474	E CAPACITOR	.47MF 20% 50V	
CA111	QEKA1HM-105	E CAPACITOR	1.0MF 20% 50V	
CA112	QCXB1CM-222Y	C CAPACITOR	.2200PF 20% 16V	
CA113	QCBB1HK-102Y	C CAPACITOR	.1000PF 10% 50V	
CA114	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
CA115	QEKA1HM-225	E.CAPACITOR	2.2MF 20% 50V	
CA116	QEKA1EM-475	E.CAPACITOR	4.7MF 20% 25V	
CA120	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
CA121	QEKA1EM-475	E.CAPACITOR	4.7MF 20% 25V	
CA122	QCXB1CM-222Y	C CAPACITOR	.2200PF 20% 16V	
CA123	QCBB1HK-102Y	C CAPACITOR	.1000PF 10% 50V	
CA124	QFV11HJ-153AZM	TF CAPACITOR	.022MF 5% 50V	
CA125	QFV11HJ-223	TF CAPACITOR	.022MF 5% 50V	
CA126	QEKA1HM-105VM	E CAPACITOR	1.0MF 20% 50V	
CA127	QEKA1HM-105	E CAPACITOR	1.0MF 20% 50V	
CA128	QCBB1HK-102Y	C CAPACITOR	.1000PF 10% 50V	
CA129	QCBB1HK-151Y	C CAPACITOR	.150PF 10% 50V	
CA130	QCBB1HK-331Y	C CAPACITOR	.330PF 10% 50V	
CA149	QEKA1HM-474	E CAPACITOR	.47MF 20% 50V	
CA150	QEKA1HM-273AZM	TF CAPACITOR	.027MF 5% 50V	
CA201	QEKA1HM-225	E.CAPA.	2.2MF 20% 50V	
CA202	QCBB1HK-102Y	C CAPACITOR	.1000PF 10% 50V	
CA203	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
CA204	QEKA1HM-1072M	E CAPACITOR	1.00MF 20% 10V	
CA205	QEKA1HM-105	E CAPACITOR	1.0MF 20% 50V	
CA210	QEKA1HM-474	E CAPACITOR	.47MF 20% 50V	
CA211	QCXY1CM-223Y	C CAPACITOR	.2200PF 20% 16V	
CA212	QCXY1CM-223Y	C CAPACITOR	.2200PF 20% 16V	

BLOCK NO. 0411111				SUFFIX
A	REF.	PARTS NO.	PARTS NAME	REMARKS
CA213	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
CA214	QFV1HJ-224	TF CAPACITOR	.22MF 5% 50V	
CA215	QEKA1HM-225	E CAPACITOR	2.2MF 20% 50V	
CA216	QEKA1EM-475	E.CAPACITOR	4.7MF 20% 50V	
CA220	QFV1HJ-104	TF CAPACITOR	.10MF 5% 50V	
CA221	QEKA1EM-475	E.CAPACITOR	4.7MF 20% 25V	
CA222	QCXB1CM-102Y	C CAPACITOR	2200PF 20% 16V	
CA223	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
CA224	QFV1HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	
CA225	QFV1HJ-223	TF CAPACITOR	.022MF 5% 50V	
CA226	QEKA1HM-105	E CAPACITOR	1.0MF 20% 50V	
CA227	QEKA1HM-105	C CAPACITOR	1000PF 10% 50V	
CA228	QCXB1HK-102Y	C CAPACITOR	1000PF 10% 50V	
CA229	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
CA230	QCXB1HK-331Y	C CAPACITOR	330PF 10% 50V	
CA249	QEKA1HM-474	E CAPACITOR	.47MF 20% 50V	
CA250	QFV1HJ-225AZM	TF CAPACITOR	.027MF 5% 50V	
CA301	QCXB1AM-102ZM	E CAPACITOR	100MF 20% 10V	
CA302	QCXB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
CA303	QEKA1CM-476	E CAPACITOR	.47MF 20% 16V	
CA304	QFV1HJ-103	TF CAPACITOR	.010MF 5% 50V	
CA305	QFV1HJ-153AZM	TF CAPACITOR	.015MF 5% 50V	
CA306	QCS11HJ-330	C CAPACITOR	.33PF 5% 50V	
CA307	QCXB1CM-182Y	C CAPACITOR	1800PF 20% 16V	
CA308	QCBB1HK-681Y	C CAPACITOR	.680PF 10% 50V	
CA309	QEKA1AM-107Z	E CAPACITOR	100MF 20% 10V	
CA311	QEKA1CM-476	E CAPACITOR	.47MF 20% 16V	
CA312	QEKA1CM-106	E CAPACITOR	10MF 20% 16V	
CA313	QEKA1CM-106	E CAPACITOR	10MF 20% 16V	
CA314	QEKA1HM-225	E.CAPA.	2.2MF 20% 50V	
CA315	QETCHM-335ZN	E CAPACITOR	3.3MF 20% 50V	
CA320	QEKS1AM-107TM	E CAPACITOR	100MF 20% 10V	
CA321	QEKA1CM-106	E CAPACITOR	10MF 20% 16V	
CA322	QEKS1AM-107ZM	E CAPACITOR	100MF 20% 10V	
CA324	QEKA1HM-225	E.CAPA.	2.2MF 20% 50V	
CA340	QFV1HJ-224	TF CAPACITOR	.22MF 5% 50V	
CA341	QFPF32A-151ZM	PP CAPACITOR	.015MF 5% 100V	
CA342	QFNA1HJ-122	M.CAPACITOR	1200PF 5% 50V	
CA343	QCXB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
CA344	QFJ31HJ-222	M CAPACITOR	2700PF 5% 50V	
CA345	QCXB1CM-103Y	C CAPACITOR	.010MF 20% 16V	
CNA01	VMC0288-P08	CONNECTOR	DOLBY T.P HEAD	
CNA02	VMC0288-P08	CONNECTOR		
CNA03	VMC0288-S08	CONNECTOR		
CNA04	VMC0288-S08	CONNECTOR		
CNA05	VMC0075-R08N	CONNECTOR		
CNA06	VMC0163-S06	CONNECTOR		
CNA07	VMC0288-S08	CONNECTOR		
CNA08	VMC0288-S12	CONNECTOR		
CNA09	VMC0288-P12	CONNECTOR		
CNA04	VMC0288-P08	CONNECTOR		
CNB05	VMC0193-S06	CONNECTOR		
CNB06	VMC0193-P06	CONNECTOR		
CNB07	VNC0001	CONNECTOR		
CNB08	VNC0001	CONNECTOR		
CNB09	VNC0001	CONNECTOR		

BLOCK NO. 041111					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
D 801	MA165	SI DIODE			
D 851	M178-2JC	Z DIODE			
D 852	MA165	SI DIODE			
D 853	MA165	SI DIODE			
D 854	M175-1JB	Z DIODE			
DA101	MA165	SI DIODE	ALC DET		
DA102	MA165	SI DIODE	ALC DET		
DA201	MA165	SI DIODE	ALC DET		
DA202	MA165	SI DIODE	ALC DET		
DA301	MA165	SI DIODE	ALC DET		
DA302	MA165	SI DIODE			
DA303	MA165	SI DIODE			
DA304	M175-1JC	Z DIODE			
IC301	UPC1228HA	IC	PB AMP		
IC302	UPC1330HA	IC	R/P SW		
IC303	LA3220	IC			
IC304	HA121334A	IC			
IC801	TAB409S	IC			
IC802	TAB409S	IC			
IC803	L193D68	IC			
L 801	U6H10008-055	OSC COIL(BIAS)			
L 802	VAP0028-100Z	INDUCTOR			
LA120	VAP0001-183	INDUCTOR			
LA121	VAP0001-362ZS	INDUCTOR			
LA220	VAP0001-183	INDUCTOR			
LA221	VAP0001-362ZS	INDUCTOR			
Q 801	2SA952(1L-K)	TRANSISTOR			
Q 802	DT144ES	TRANSISTOR			
Q 803	UN4213	TRANSISTOR			
Q 804	UN4212	TRANSISTOR			
Q 808	2SB772(Q/P)	TRANSISTOR			
Q 809	2SC2785(HFE)	TRANSISTOR			
Q 810	2SC2785(HFE)	TRANSISTOR			
QA101	UN4210	TRANSISTOR			
QA102	2SD1302(S,T)	TRANSISTOR	PB MUTE		
QA103	2SD1302(S,T)	TRANSISTOR	REC MUTE		
QA104	UN4210	TRANSISTOR	CROM SW		
QA105	2SD1302(S,T)	TRANSISTOR			
QA201	UN4210	TRANSISTOR			
QA202	2SD1302(S,T)	TRANSISTOR	PB MUTE		
QA203	2SD1302(S,T)	TRANSISTOR	REC MUTE		
QA204	UN4210	TRANSISTOR	CROM SW		
QA205	2SD1302(S,T)	TRANSISTOR			
QA300	UN4111	TRANSISTOR			
QA301	2SC2785(HFE)	TRANSISTOR			
QA302	2SC2785(HFE)	TRANSISTOR			
QA303	UN4210	TRANSISTOR	ALC SW		
QA304	DT144ES	TRANSISTOR			
QA305	DT144ES	TRANSISTOR			
QA306	2SC2785(HFE)	TRANSISTOR			
QA307	2SC1845	TRANSISTOR			
QA308	2SC2785(HFE)	TRANSISTOR			
QA309	2SC1845	TRANSISTOR			

• Operation Key Switch P.C. Board

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [8] [8] [8]
RF 19	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W			
RF 23	GRD161J-561	CARBON RESISTOR 560 5% 1/6W			
RF 24	GRD161J-182	CARBON RESISTOR 1.8K 5% 1/6W			
RF 25	GRD161J-681	CARBON RESISTOR 680 5% 1/6W			
RF 26	GRD161J-681	CARBON RESISTOR 680 5% 1/6W			
RF 27	GRD161J-564	CARBON RESISTOR 560K 5% 1/6W			
RF 28	GRD161J-331	CARBON RESISTOR 330 5% 1/6W			
RF 29	GRD161J-473	CARBON RESISTOR 4.7K 5% 1/6W			
RF 30	GRD161J-223	CARBON RESISTOR 2.2K 5% 1/6W			
RF 31	GRD161J-223	CARBON RESISTOR 2.2K 5% 1/6W			
RF 32	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			
RF 33	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W			
RF 34	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
RF 35	GRD161J-101	CARBON RESISTOR 1.00 5% 1/6W			
RF 37	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
RF 38	GRD161J-470SX	CARBON RESISTOR 4.7 5% 1/2W			
RF 39	GRD161J-101	CARBON RESISTOR 1.00 5% 1/6W			
RF 40	GRD161J-101	CARBON RESISTOR 1.00 5% 1/6W			
RF 41	GRD161J-223	CARBON RESISTOR 2.2K 5% 1/6W			
RF 42	GRD161J-223	CARBON RESISTOR 2.2K 5% 1/6W			
RF 43	GRD161J-334	CARBON RESISTOR 2.2K 5% 1/6W			
RF 44	GRD161J-563	CARBON RESISTOR 5.6K 5% 1/6W			
RF 45	GRD161J-563	CARBON RESISTOR 5.6K 5% 1/6W			
RF 46	GRD161J-121	CARBON RESISTOR 120 5% 1/6W			
RF 47	GRD161J-334	CARBON RESISTOR 2.0K 5% 1/6W			
RF 48	GRD161J-273	CARBON RESISTOR 220 5% 1/6W			
RF 102	GRD161J-153	CARBON RESISTOR 1.0K 5% 1/6W			
RF 103	GRD161J-473	CARBON RESISTOR 4.7K 5% 1/6W			
RF 113	GRD161J-183	CARBON RESISTOR 1.8K 5% 1/6W			
RF 109	GRD161J-227	CARBON RESISTOR 2.7K 5% 1/6W			
RF 110	GRD161J-823	CARBON RESISTOR 82K 5% 1/6W			
RF 111	GRD161J-221	CARBON RESISTOR 220 5% 1/6W			
RF 112	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
RF 113	GRD161J-105	CARBON RESISTOR 1.00 5% 1/6W			
RF 132	GRD161J-102	CARBON RESISTOR 1.00 5% 1/6W			
RF 201	GRD161J-273	CARBON RESISTOR 220 5% 1/6W			
RF 202	GRD167J-662	CARBON RESISTOR 1.00 5% 1/6W			

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [8] [8] [8]
CN708	VMC163-R11	CONNECTOR C CAPACITOR	150PF 10X 50V		
CS 01	GCBBIHK-151Y	SI DIODE	AHB		
D 709	ISS133	LED I-M	BEAT		
D 710	SLR-34VCF25	LED I-M	VOCAL		
D 711	SLR-34MCF39	LED I-M	INSTR.		
D 712	SLR-34MCF39	LED I-M	STAND-BY		
D 713	SLR-34VRF39	LED I-M			
IC703	SBX185-52	RM RECEIVER			
R 761	GRD161J-202	CARBON RESISTOR 2.0K 5% 1/6W			
R 762	GRD161J-122	CARBON RESISTOR 1.2K 5% 1/6W			
R 763	GRD161J-683	CARBON RESISTOR 68K 5% 1/6W			
R 764	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
R 765	GRD161J-103	CARBON RESISTOR 1.0K 5% 1/6W			
R 766	GRD161J-104	CARBON RESISTOR 1.00 5% 1/6W			
R 767	GRD161J-392	CARBON RESISTOR 3.9K 5% 1/6W			
R 768	GRD161J-362	CARBON RESISTOR 3.60K 5% 1/6W			
R 769	GRD161J-104	CARBON RESISTOR 4.30 5% 1/6W			
R 770	GRD161J-473	CARBON RESISTOR 4.7 5% 1/6W			
R 771	GRD161J-202	CARBON RESISTOR 2.0K 5% 1/6W			
R 772	GRD161J-562	CARBON RESISTOR 5.6K 5% 1/6W			
R 773	GRD161J-152	CARBON RESISTOR 1.0K 5% 1/6W			
R 774	GRD161J-222	CARBON RESISTOR 1.8K 5% 1/6W			
R 775	GRD161J-392	CARBON RESISTOR 2.7K 5% 1/6W			
R 776	GRD161J-122	CARBON RESISTOR 3.9K 5% 1/6W			
R 777	GRD161J-152	CARBON RESISTOR 1.2K 5% 1/6W			
R 778	GRD161J-222	CARBON RESISTOR 1.8K 5% 1/6W			
R 779	GRD161J-103	CARBON RESISTOR 1.0K 5% 1/6W			
R 780	GRD161J-471	CARBON RESISTOR 4.7K 5% 1/6W			
R 781	GRD161J-471	CARBON RESISTOR 4.7K 5% 1/6W			
R 782	GRD161J-331	CARBON RESISTOR 3.30 5% 1/6W			
R 783	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			
S 701	QSQ1A11-V042	TACT SW POWER			
S 702	QSQ1A11-V042	TACT SW EFFECT	AHB		
S 703	QSQ1A11-V042	TACT SW			
S 704	QSQ1A11-V042	TACT SW	LOUD		
S 705	QSQ1A11-V042	TACT SW	CD PLAY		
S 706	QSQ1A11-V042	TACT SW	CD STOP		
S 707	QSQ1A11-V042	TACT SW	TUNER		
S 708	QSQ1A11-V042	TACT SW	FM MODE		
S 709	QSQ1A11-V042	TACT SW	TRE. +		
S 710	QSQ1A11-V042	TACT SW	TRE. -		
S 711	QSQ1A11-V042	TACT SW	DOCK		
S 712	QSQ1A11-V042	TACT SW	CLOCK		
S 713	QSQ1A11-V042	TACT SW	BASS +		
S 714	QSQ1A11-V042	TACT SW	BASS -		
S 715	QSQ1A11-V042	TACT SW	VOL. +		
S 716	QSQ1A11-V042	TACT SW	VOL. -		
S 717	QSQ1A11-V042	TACT SW	ENTER		
S 718	QSQ1A11-V042	TACT SW			
S 719	QSQ1A11-V042	TACT SW			

• CD Amplifier P.C. Board

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [8] [8] [8]
RFD03	GRD161J-473	CARBON RESISTOR TAPE			
RFD06	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
RFD09	GRD161J-224	CARBON RESISTOR 220K 5% 1/6W			
RFD11	GRD161J-221	CARBON RESISTOR 82K 5% 1/6W			
RFD12	GRD161J-221	CARBON RESISTOR 220 5% 1/6W			
RFD13	GRD161J-472	CARBON RESISTOR 4.7K 5% 1/6W			
RFD16	GRD161J-663	CARBON RESISTOR 6.6K 5% 1/6W			
RFD17	GRD161J-183	CARBON RESISTOR 18K 5% 1/6W			
RFD18	GRD161J-102	CARBON RESISTOR 100K 5% 1/6W			
RFD19	GRD161J-562	CARBON RESISTOR 5.6K 5% 1/6W			
RFD20	GRD161J-104	CARBON RESISTOR 100 5% 1/6W			
RFD21	GRD161J-104	CARBON RESISTOR 100 5% 1/6W			
RFD22	GRD161J-104	CARBON RESISTOR 100K 5% 1/6W			
RFD23	GRD161J-105	CARBON RESISTOR 1.0K 5% 1/6W			
RFD24	GRD161J-105	CARBON RESISTOR 1.00 5% 1/6W			
RFD25	GRD161J-392	CARBON RESISTOR 3.92 5% 1/6W			
RFD26	GRD161J-364YT	CARBON RESISTOR 3.64YT 5% 1/6W			
RFD27	GRD161J-433YT	CARBON RESISTOR 4.33YT 5% 1/6W			
RFD28	GRD161J-104	CARBON RESISTOR 104 5% 1/6W			
RFD29	GRD161J-104	CARBON RESISTOR 104 5% 1/6W			
RFD30	GRD161J-105	CARBON RESISTOR 1.05 5% 1/6W			
RFD31	GRD161J-105	CARBON RESISTOR 1.00 5% 1/6W			
RFD32	GRD161J-105	CARBON RESISTOR 105 5% 1/6W			
RFD33	GRD161J-105	CARBON RESISTOR 105 5% 1/6W			
RFD34	GRD				

BLOCK NO. **UX-A4 B/E/G/GI/EN**BLOCK NO. **UX-A4 B/E/G/GI/EN**BLOCK NO. **UX-A4 B/E/G/GI/EN**

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	PARTS NAME	REMARKS	SUFFIX	PARTS NAME	REMARKS	SUFFIX
I C601	TC9236AF	IC	1 CHIP PROCESSOR		CARBON RESISTOR	47K 5% 1/6W		CARBON RESISTOR	2-2M 5% 1/6W	
I C603	TC9278F	IC	DATA CONVERTER		CARBON RESISTOR	33K 5% 1/6W		CARBON RESISTOR	33K 5% 1/6W	
I C604	XRA1521BN	IC	L-P-F		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
K 693	VQ2048-009	INDUCTOR	FOR FTZ		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
L 691	VAP0018-100	INDUCTOR	FOR FTZ		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
L 692	VAP0018-100	INDUCTOR	FOR FTZ		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
L 693	VQ10028-100Z	INDUCTOR	FOR FTZ		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
Q 501	2SA1952(L-K)	TRANSISTOR	5V REGULATOR		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
Q 581	2SA1952(L-K)	TRANSISTOR	5V REGULATOR		CARBON RESISTOR	82 5% 1/6W		CARBON RESISTOR	82 5% 1/6W	
Q 591	2SA1309(RS)	TRANSISTOR	5V REGULATOR		CARBON RESISTOR	120K 5% 1/6W		CARBON RESISTOR	47K 5% 1/6W	
R 501	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	2-2M 5% 1/6W	
R 502	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	2.0K 5% 1/6W		CARBON RESISTOR	33K 5% 1/6W	
R 504	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W		CARBON RESISTOR	2.0K 5% 1/6W		CARBON RESISTOR	33K 5% 1/6W	
R 505	QRD161J-220	CARBON RESISTOR	2.2 5% 1/6W		CARBON RESISTOR	2.2 5% 1/6W		CARBON RESISTOR	33K 5% 1/6W	
R 506	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		CARBON RESISTOR	100 5% 1/6W		CARBON RESISTOR	33K 5% 1/6W	
R 511	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W		CARBON RESISTOR	3.9K 5% 1/6W		CARBON RESISTOR	47K 5% 1/6W	
R 512	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W		CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 513	QRD161J-332	CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	3.3K 5% 1/6W	
R 514	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 515	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 516	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	10K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 517	QRD161J-302	CARBON RESISTOR	2.0K 5% 1/6W		CARBON RESISTOR	1.5K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 521	QRD161J-154	CARBON RESISTOR	1.5K 5% 1/6W		CARBON RESISTOR	1.5K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 522	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W		CARBON RESISTOR	3.9K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 523	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W	
R 524	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	3.3K 5% 1/6W	
R 525	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	1.0V OFFSET ADJ.	
R 529	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W		CRYSTAL	16.9344MHz	
R 531	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W				
R 532	QRD161J-106	CARBON RESISTOR	100K 5% 1/6W		CARBON RESISTOR	100K 5% 1/6W				
R 543	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W		CARBON RESISTOR	12K 5% 1/6W				
R 544	QRD161J-223	CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W				
R 545	QRD161J-103	CARBON RESISTOR	1.0K 5% 1/6W		CARBON RESISTOR	1.5K 5% 1/6W				
R 548	QRD161J-153	CARBON RESISTOR	1.5K 5% 1/6W		CARBON RESISTOR	80 5% 1/6W				
R 549	QRD161J-821	CARBON RESISTOR	80 5% 1/6W		CARBON RESISTOR	3.2K 5% 1/6W				
R 550	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		CARBON RESISTOR	1.2M 5% 1/6W				
R 551	QRD161J-223	CARBON RESISTOR	2.2K 5% 1/6W		CARBON RESISTOR	1.0K 5% 1/6W				
R 552	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W		CARBON RESISTOR	5.6K 5% 1/6W				
R 553	QRD161J-123	CARBON RESISTOR	1.5K 5% 1/6W		CARBON RESISTOR	1.5K 5% 1/6W				
R 554	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	1.5K 5% 1/6W				
R 555	QRD161J-103Y	CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	1.0K 5% 1/6W				
R 556	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W		CARBON RESISTOR	1.2M 5% 1/6W				
R 561	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W				
R 562	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		CARBON RESISTOR	1.0K 5% 1/6W				
R 563	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		CARBON RESISTOR	1.5K 5% 1/6W				
R 564	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W		CARBON RESISTOR	3.3K 5% 1/6W				
R 565	QRD161J-683	CARBON RESISTOR	6.8K 5% 1/6W		CARBON RESISTOR	6.8K 5% 1/6W				
R 566	QRD161J-273	CARBON RESISTOR	2.7K 5% 1/6W		CARBON RESISTOR	100 5% 1/6W				
R 583	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		CARBON RESISTOR	100 5% 1/6W				
R 591	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W		CARBON RESISTOR	4.7K 5% 1/6W				
R 611	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		CARBON RESISTOR	1.0K 5% 1/6W				
R 612	QRD161J-103	CARBON RESISTOR	1.0K 5% 1/6W		CARBON RESISTOR	1.0K 5% 1/6W				
R 613	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		CARBON RESISTOR	220K 5% 1/6W				

● Tuner P.C. Board

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	PARTS NAME	REMARKS	SUFFIX	PARTS NAME	REMARKS	SUFFIX
C 001	QCC1EM-200	C CAPACITOR	20PF 5% 50V		C CARBON RESISTOR	20 5% 50V		C CAPACITOR	0.047MF 20X 25V	
C 003	QCSB1HK-3R3Y	C CAPACITOR	3.3PF 10% 50V		C CARBON RESISTOR	10 5% 50V		C CAPACITOR	.027PF 5% 50V	
C 004	QCSB1HM-1R5Y	C CAPACITOR	1.5PF 20% 50V		C CARBON RESISTOR	150PF 10X 50V		C CAPACITOR	150PF 10X 50V	
C 005	QCT05UH-100	C CAPACITOR	10PF 5% 50V		C CARBON RESISTOR	150PF 10X 50V		C CAPACITOR	150PF 10X 50V	
C 006	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V		C CARBON RESISTOR	2200PF 20X 16V		C CAPACITOR	2200PF 20X 16V	
C 007	QC130CH-200Y	C CAPACITOR	.020PF 5% 50V		C CARBON RESISTOR	22 5% 16V		C CAPACITOR	2.2MF 20X 50V	
C 008	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V		C CARBON RESISTOR	2.2MF 20X 50V		C CAPACITOR	2.2MF 20X 50V	
C 009	QCT30UH-8R2Y	C CAPACITOR	.010MF 30% 16V		C CARBON RESISTOR	3.3MF 20X 50V		C CAPACITOR	3.3MF 20X 50V	
C 010	QCSB1HM-1R0Y	C CAPACITOR	.010PF 20% 50V		C CARBON RESISTOR	4.7MF 20X 50V		C FILTER	4.7MF 20X 50V	
C 011	QCVB1CN-103Y</td									

10. Wiring Connection

■ Tape Deck/Amplifier Section

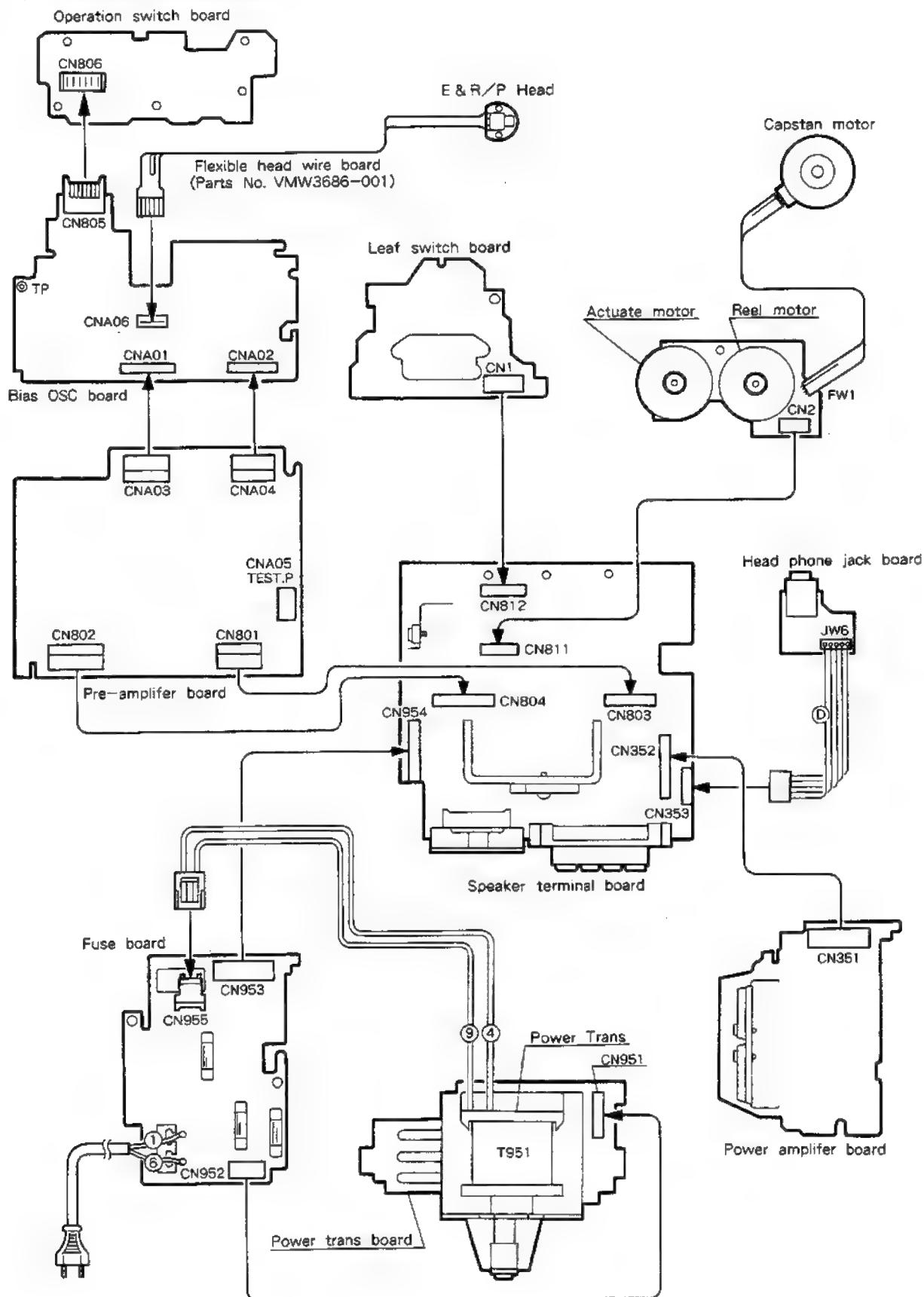


Fig. 10-1

9. Block Diagram

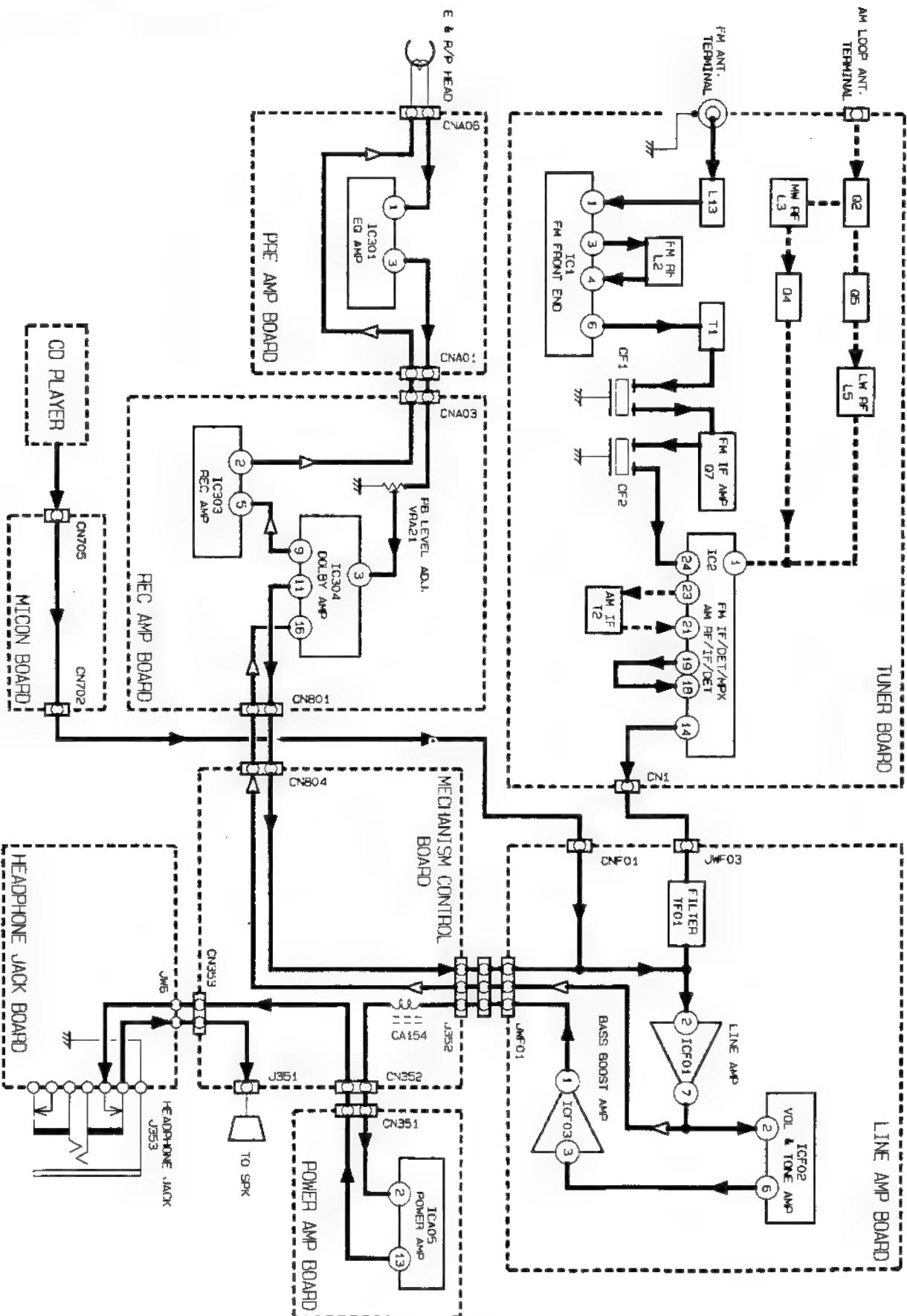
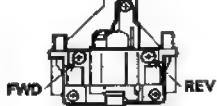
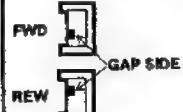
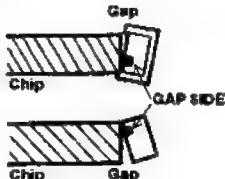
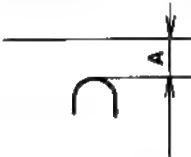


Fig. 9-1

■ Cassette mechanism specification

Item	Specification	condition	Posture
1. Winding torque (g-cm)	PLAY FF/REW :27~60g-cm (Both , FWD, REV) :90~200g-cm	Cassette tape TW2111A(for FWD) TW2231A(for FF/REV) TW2121A(for REV)	Sideways
2. Speed devaluation	FWD at tape end VVT 712 :4.8cm/sec Deviation of speed between FWD/REV to be within 4.5Hz. :2940~3060Hz	VVT 712 Wow/Flutter meter	Sideways
3. WOW/FL (%)	At begining of tape and end.VVT 712 :JIS wrms below 0.18% (Both FWD, REV)	VVT 712 Wow/Flutter meter	Sideways
4. Back tension (g-cm)	In in play :1.0~5.0g-cm (Both FWD, REV)	Cassette tape TW2111 (for FWD) TW2422 (for REV)	Sideways
5. Winding torque (g-cm)	In play :Above 90g-cm (Both FWD, REV)	Cassette tape TW2412 (for FWD) TW2422 (for REV)	Sideways
6. E, head tilt	Both FWD, REV :90° ± 45'	M300 gauge 45' chip	Sideways

■ Cassette mechanism part

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
1. Thrust gap flywheel		Check with finger feeling.	0.2 – 1.0mm (BOTH FWD, REV)	
2. Mecha operation	Mecha control	Following operation to be normal (Both FWD, REV) and, in that time, noise, vibration should not occur. (Running noise during PLAY, FF, REW, is accepted if noise can't be heard with loading cassette type.)	PLAY, DIR, FF, REW, SCAN (FF, REW), PAUSE, STOP	
3. Signal of auto stop	Mecha control	Lead light to be on and off normally play (SIG) (Caution: Without tape fwd side only, led to be on and off.)		
4. Leaf switch position		1. All switch leds, should light when putting cassette gauge for confirming leaf SW on. 2. All SW leds should not light when putting cassette gauge for confirming leaf SW off.		
5-1. Azimuth	M300 gauge t=3.4mm chip VVT 704(12.5KHz)	Adjust azimuth to the peak point by play back 12.5KHz. At that time, difference Lch – Rch below 4dB and difference Lch – Rch FWD/REV below 3dB.		
5-2. Guide height	Head amp	t=3.4mm chip can be inserted into guide of R/P head after adjusting azimuth.(t=3.4mm chip can after be inserted into dummy guide, both FWD, REV.)		
5-3. Tape running	Upper side curling of FWD, lower side curling of REV.	Curl running should not occur at guide of R/P head with loading C-90 at middle.(Both FWD, REV)	FWD REW  GAP SIDE	MECHA CONTROL
	Lower side curling of FWD, upper side curling of REV	Curling at opposite of gap is corrected by turning azimuth screw within $\frac{1}{2}$ turns can be acceptable.(After checking above item azimuth screw to be returned to previous position.) Curling at gap side is corrected by turning azimuth screw within $\frac{1}{4}$ turns can be acceptable (After checking above item, azimuth screw to be returned to be returned to previous position.)	 1/2 TURN (180°)	C-90 
5-4. Stretching		Stretching not to occur at the beginning of C-90. (Without pad)	Sampling check	C-90
5-5. Head position	IN PLAY A 3.10–3.65mm (3.25–3.80) IN MS A 4.4–5.1mm (1.8–2.5)			Head position jig. Figures in () is against standard cassette guide
6. Separation		Reversing L and R cross talk not to occur by play back 1KHz.		Mecha control OSC scope VVT 752

■ Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
LW RF tracking check and adjust (All version)	Band select : LW Tuner Input : Standard loop antenna Measuring point : TP9	<ul style="list-style-type: none"> Frequency of SSG : 144kHz Number preset memory : Max. capacity(M6) <p>1. Adjust L6 to obtain $1.1V \pm 0.02V$ at TP9.</p> <ul style="list-style-type: none"> Frequency range : 144 kHz Receive 144 kHz(M6) <p>2. Receive 144kHz signal from an AM oscillator by the set while adjusting L5 to maximize headphone output.</p> <ul style="list-style-type: none"> Frequency range : 288kHz Receive 288 kHz(M7) <p>3. Receive 288 KHz signal from an AM oscillator by the set while adjusting TC3 to maximize headphone output.</p> <p>4. Repeat the above steps 2. and 3. to obtain maximum outputs respectively.</p>	$1.1V \pm 0.02V$	L6 L5 TC3 L5, TC3
MW or AM RF tracking check and adjust (All version))	Band select : AM or MW Tuner Input : Standard loop antenna	<p>1. Receive 603 kHz signal (preset No.3) from the AM oscillator by the set while adjusting L3 to maximize headphone output.</p> <p>2. Receive 1404 kHz signal from an AM oscillator by the set while adjusting TC2 to maximize headphone output.</p> <p>3. Repeat the above steps 1. and 2. to obtain maximum outputs respectively.</p>	Output level : maximum	L3 TC2 L3, TC2
FM RF tracking check and adjust (UX – A4 B)	<ul style="list-style-type: none"> Band select : FM Tuner input : Dummy antenna for unbalanceed 75Ω 	<ul style="list-style-type: none"> Receive 88 MHz signal (preset No.3) from an FM oscillator by the set while adjusting L2 to maximize headphone output . 	Output level : maximum	L2
FM RF tracking check and adjust (UX – A4 E / G / GI / EN)	<ul style="list-style-type: none"> Positive side to TP1 Negative side to TP2 	<p>1. Adjust L1 to obtain $1.3 V \pm 0.02 V$ at TP9. G/GI version use : $1.0V \pm 0.02V$.</p> <p>2. Receive 88MHz signal from an FM oscillator by the set while adjusting L2, L13 to maximize headphone output.</p> <p>3. Next, receive 106MHz signal while adjusting TC1, TC4 to maximize headphone output.</p> <p>4. Repeat the above steps 2. and 3. to obtain maximum outputs respectively.</p>	$1.3 \pm 0.02V$ G/GI version : $1.0 \pm 0.02V$	L2, L13 TC1, TC4

■ Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
AM IF tadjust and check (All version)	<ul style="list-style-type: none"> • Band select : MW or AM • Receiving frequency : Near the upper band edge where no signal comes in. • Volume control : Minimum gain position. • Tuner Input : Positive side to TP3 • Tuner output : Positive side to TP6 : Negative side to TP7 	<p>• Adjust above mentioned aligning position, so that maximum and symmetrical wave from (See Fig.a) can be obtained, in this case, the wave peak should appear on the center marker(450kHz) in the scope of sweeper.</p> <p>• On the AM IF circuit, IF filter is solid units, so there is unnecessary for IF tuning.</p> <p>* In case if tuning may be needed (Repair etc.), do the above mentioned alignment.</p>		T2
FM IF adjust and check (All version)	<ul style="list-style-type: none"> • Band select : FM • Receiving frequency • Volume control : Minimum gain position. • Tuner input : Positive side to TP5 • Tuner output : Positive side to TP6 : Negative side to TP7 	<p>① Remove CF3 so that " S " curve may be changed to IF wave from as shown Fig. a. Adjust T1 farther more to obtain maximum and balanced wave from .</p> <p>② Put back CF3 so that " S " curve on the scope may obtain maximum and balanced wave from as shown Fig.b.</p> <p>* On the FM circuit, IF filter and discriminator is solid units so there is unnecessary for IF tuning. In case IF tuning may be needed (Repair etc.), do that above mentioned alignment.</p> <p>* Note for G/GI , E/EN version</p> <p>① As to " G/GI " , " E/EN " version, FM IF alignment is necessary.</p> <p>② Receive 98MHz, 22.5 kHz dev. Input level, about - 3dB limiting sensitivity level.</p> <p>③ Adjust T1, no farther improvement.</p>		T1

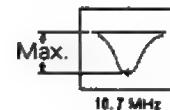


Fig. a

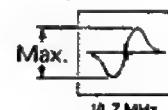


Fig. b

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Recording /playback frequency response check and adjustment	Test tape : UR(Normal tape) Standard frequency : 1kHz (REF. - 20dB) Test point IN : AUX IN Test point OUT : DOLBY TP	While inputting REF. - 20dB from AUX IN, perform recording and replay with the normal tape TS8 . At this time, confirm the output with VRA13(Lch) and VRA23(Rch) so that the deviation between 1.25 kHz and 12.5 kHz at the DOLBY TP becomes 0 ± 1 dB.	1.25/ 12.5 kHz : 0 ± 1 dB	Lch : VRA13 Rch : VRA23
Recording /playback sensitivity adjustment	Test tape : UR(Normal tape) Test point In : AUX IN Test point out : DOLBY TP	① While inputting REF.1 kHz to AUX IN perform recording and replay with the normal tape TS8. ② Adjust Lch and Rch respectively with VRA12 and VRA22 so that the output at the DOLBY test point at this time becomes 0 ± 1 dB. ③ Next, perform recording and replay with the chromium tape TS10 and metal tape TS11 according to the same procedures in the Step ①. ④ Confirm that the DOLBY TP output at this time is 0 ± 1 dB.	Reference level : Monitor levelWithin 0 ± 1 dB	Lch : VRA12 Rch : VRA22
Recording / playback distortion check	Test tape : UR(Normal tape) Test point In : AUX Test point : DOLBY TP	Supply 1 kHz, - 8 dBs signal to the AUX and record it. Play it back while checking that distortion is less than 5 %.	Less than 5 %	-
Bias frequency adjustment	• Tape mode • Test point : DOLBY TP	Switch tape select to Normal position. In case that the bias frequency is out of specification, L801 should be readjusted to standard and set to Tuner, Recording position for alignment. ① Adjust bias frequency at FM mode. ② Confirm bias frequency at AMmode.	DOLBY TP :100 ± 0.2 kHz	L801

■ Mechanism & Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	Test tape :VTT704(12.5kHz) Test point :Headphones	<p>① Playback the test tape VTT704(12.5kHz) in the forward direction, adjust the head azimuth screw (A) to maximize the headphones output while minimum the phase difference between channels</p> <p>② Playback the test tape in the reverse direction, adjust the head azimuth screw (B) for the same purpose as the forward playback.</p> <p>③ Deviation foward and reverse : within 3 dB * Whenever the head is changed the azimuth should be readjusted.</p>	Output : within – 2dB from the peak Phase difference :minimum	Head azimuth screw
Tape speed adjustment	Test tape : VTT712(3kHz) Test point : Headphone	Playback the test tape VTT712 (3kHz) at the tape end position. Should the following tape speed is out of specification, it is necessary to adjust the VR801 so that standard value obtain within 3000~3020 Hz.	Normal speed : within 3000~3020Hz	VR801
Wow and flutter check	Test tape :VTT712(3kHz) Test point :Headphone	Playback the test tape VTT712(3kHz) to tape start, midle and end position. Wow and flutter should be within the following allowance at the three positions.	Playback FWD / REV should be less than 0.2% (JIS RMS)	—
Playback output level adjustment	Test tape :VTT724(1kHz) Test point : DOLBY TP	<p>1. Playback the test tape VTT724(1kHz) and switch the tape select to NORMAL position.</p> <p>2. Adjust VRA11(Lch) and VRA21(Rch) so that standard value obtain less than $-11\text{dB} \pm 1\text{dB}$.</p> <p>3. L, R difference level to be less than $\pm 2\text{dB}$.</p>	Less than $-11\text{dB} \pm 1\text{dB}$ Less than $\pm 2\text{dB}$	Lch : VRA11 Rch : VRA21
Frequency response check	Test tape :VTT - 7063(1kHz) Test point : DOLBY TP(CNA05)	<p>① Switch tape select to Normal position and playback the test tape VTT - 7063(1kHz).</p> <p>② Confirm the output level at the DOLBY TP becomes as follows with reference to 1kHz.</p> <p>③ Compare the level between 1 kHz and 63Hz , 1 kHz and 12.5kHz.</p> <p>④ Then defference level should be within $0\text{dB} \pm 4\text{dB}$, $0\text{dB} \pm 4\text{dB}$.</p>	63 Hz/ 1 kHz level : within $0 \pm 4\text{dB}$ 1kHz / 12.5kHz : within $0 \pm 4\text{dB}$	—

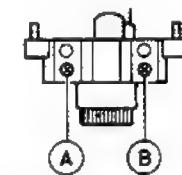


Fig. 2

■ Arrangement of adjusting positions

● Tape deck/amplifier section

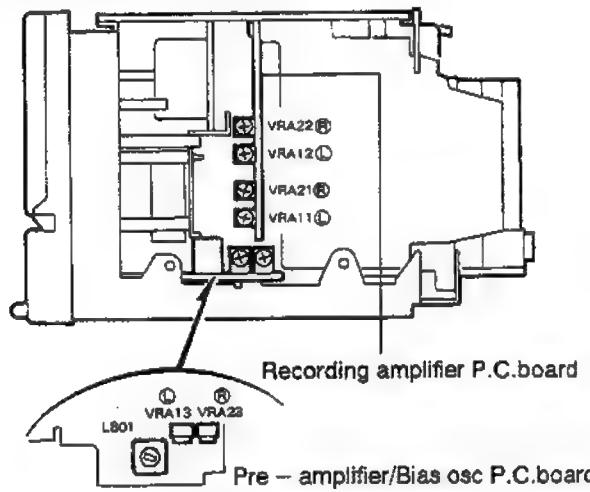


Fig. 8-1

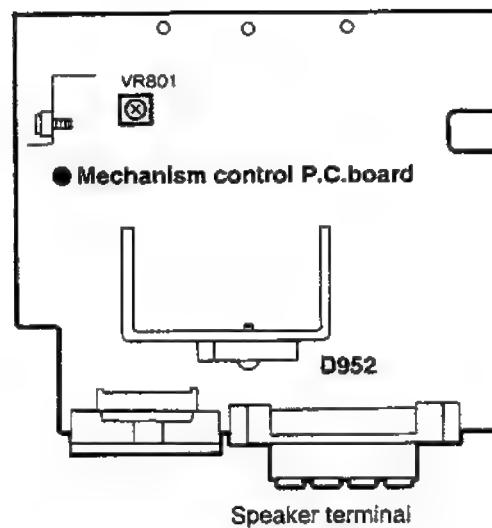


Fig. 8-2

● CD player assembly section

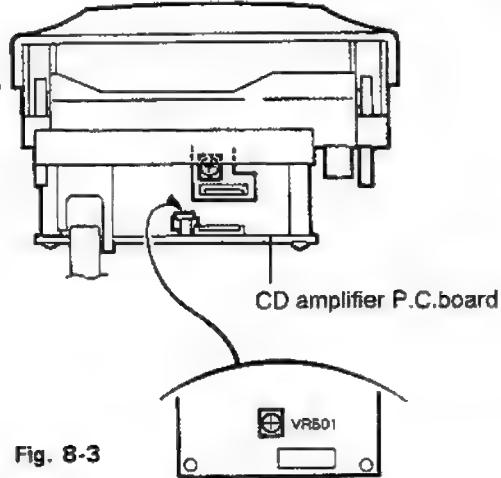


Fig. 8-3

● Tuner P.C.board :UX - A4 B

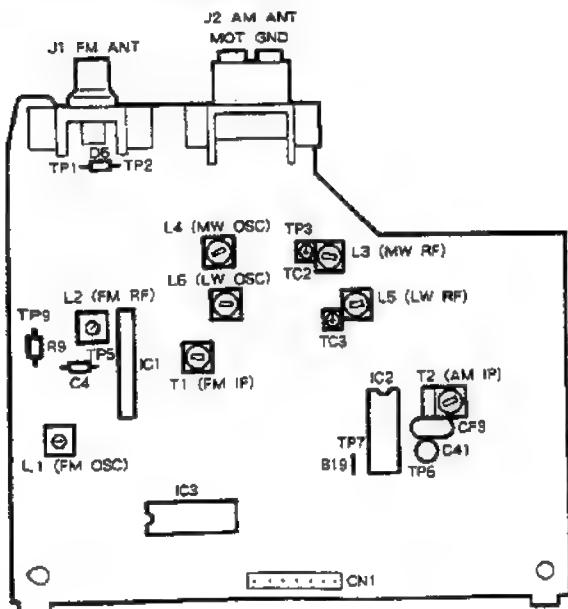


Fig. 8-4

● Tuner P.C.board :UX - A4 E/G/GI/EN

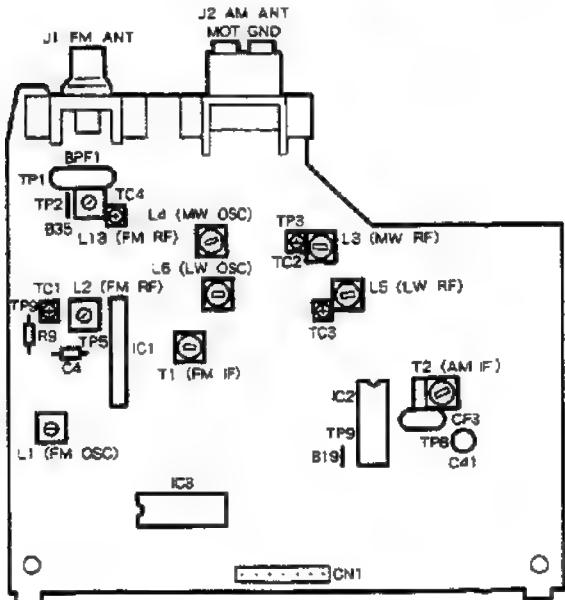


Fig. 8-5

8. Main Adjustments

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency: 50Hz to 20kHz)
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
- VTT712 For tape speed,wow and flutter measurement
- VTT724 For 3kHz reference level check
- VTT736 For playback frequency response check
- VTT752 For playback channel check(1kHz)
4. Electronic voltmeter, Distortion meter
5. Resistor...600 Ω for attenuator matching
6. Torque gauge..... Cassette type for CTG - N mechanism adjustment
7. Wow and Flutter meter , Frequency counter
8. Extension cord for check EXTUXT1 - KIT

■ Measuring conditions (Amplifier section)

Supply voltage AC 230V(50/60Hz);UX - A4 E/G/GI/EN
AC240V(50/60Hz);UX - A4B

Reference output : Speaker 0 dBs (0.775V) / 4 Ω
: Headphone 0 dBs (0.775V) / 32 Ω

● Standard position of functionswitches

Function switch TAPE
Tape select switch NORMAL
Timer , DOLBY NR , Active hyper bassswitch OFF
Beat cut switch Position 1 or Normal

● Standard position of volume control

BASS, TREBLE CENTER
Main volume adjust 0 dBs output
Test tape for REC/PB Normal tape : UR8
Standard test frequency 1 kHz
; unless otherwise specified.
Reference input level AUX IN : - 8dBs
Input for REC/PB, Check &measuring AUX IN
: - 28.0 dBs
Output for measuring unless otherwise specified

: At speaker terminal

● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channels Electronic voltmeter, the negative side never connect commonly.
2. Replaced output load with a dummy and that lead wire to be used as big as possible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

● Load at measured terminal

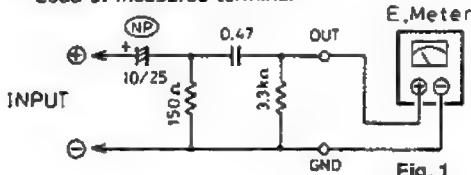


Fig. 1

■ Measuring condition (Radio section)

Refer to rating source Tuner+B : DC 5.8V
Reference output Speaker : 50mW(0.45 V) / 4 Ω
Headphon : (0.06V) / 32 Ω
AM frequency 400Hz modulation 30%
FM frequency 400Hz modulation
frequency deviation 22.5kHz

● Standard position of switches and controllers

Function RADIO
Mode STEREO
Super bass OFF

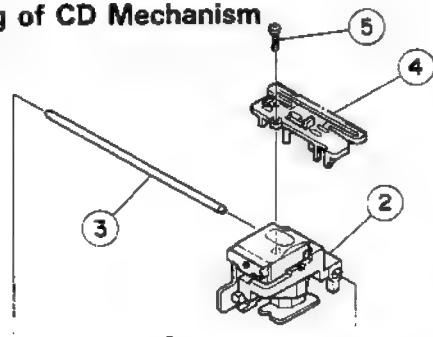
● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order
Procedure of the steps of tracking should be kept.

1 2 3 4 5

■ Analytic drawing of CD Mechanism

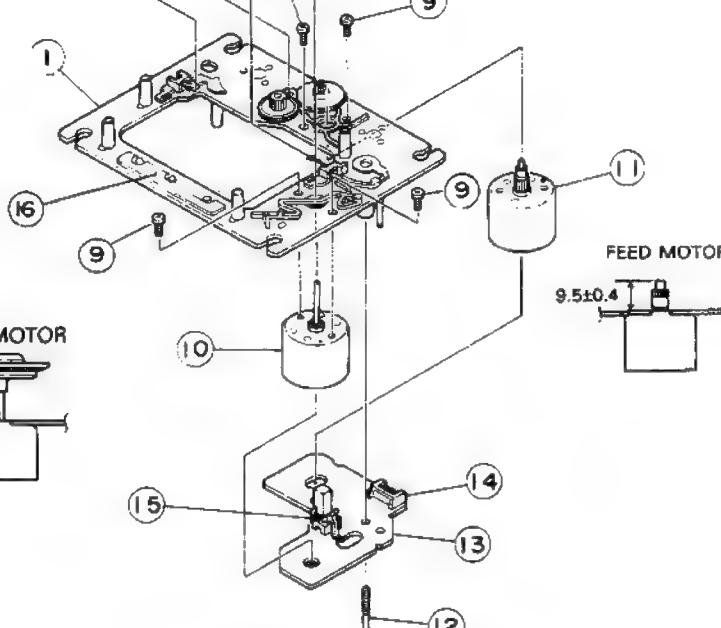
A



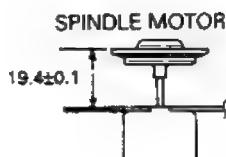
B



C



D



E

Fig. 7-30

Apply grease to the points 'a, b, c' as follows:

a : Grease No. G-31KB

Apply a drop approx. ø3 mm onto the hole.

b : Grease No. G-31KB

Apply thin before assembling the pickup unit.

c : Grease No. G-31KB

 Apply a drop approx. ø4 mm after installation
 of the pickup unit.* After installation of ⑦, apply bond lock "Lock
Tight #460", or equivalent.**■ CD Mechanism Parts List**

BLOCK NO. M8MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	C.R
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	OPTICAL PICK-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW		1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	TURN TABLE		1		
	8	SDSP2003N	SCREW		1		
	10	E406783-001	DC MOTOR	SPINDLE	1		
	11	E406784-001SA	DC MOTOR ASSY	FEED	1		
	12	E75832-001	SPECIAL SCREW		1		
	13	EMW10190-001	PRINTED BOARD		1		
	14	EMV5109-006B	CONN.TERMINAL		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

■ Reel and Actuator motor assembly (Fig. 7-27, 7-28)

1. Remove four screws (23, 26) retaining the reel motor (21) and the actuator motor assembly (24). (Fig. 7-27)
2. When removing the reel motor, unsolder the two points (D) on the back side. (Fig. 7-28)
3. When removing the actuator motor, unsolder the two points (E) in the same manner. (Fig. 7-28)

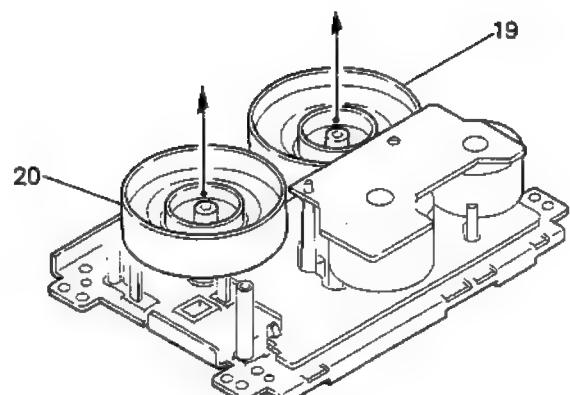


Fig. 7-25

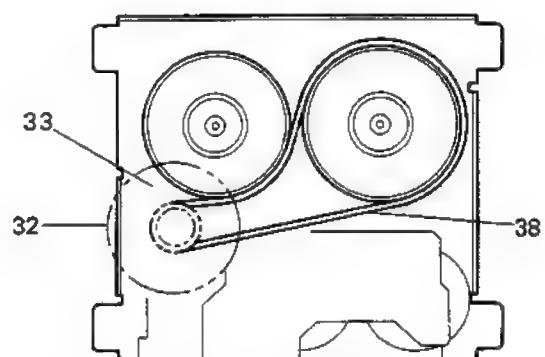


Fig. 7-26

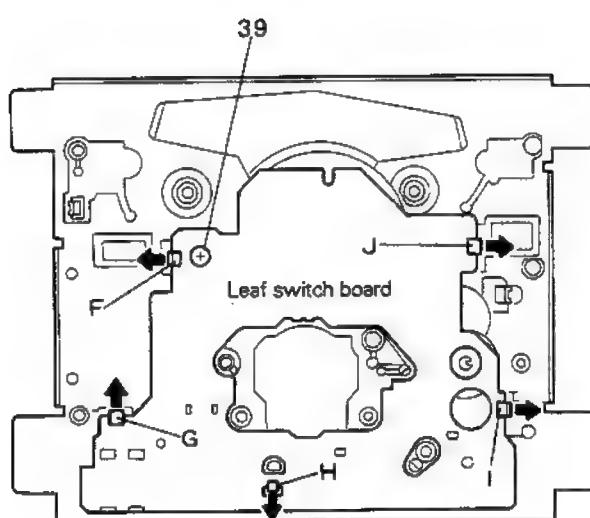


Fig. 7-29

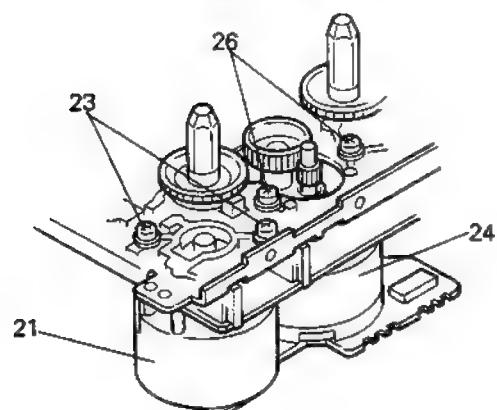


Fig. 7-27

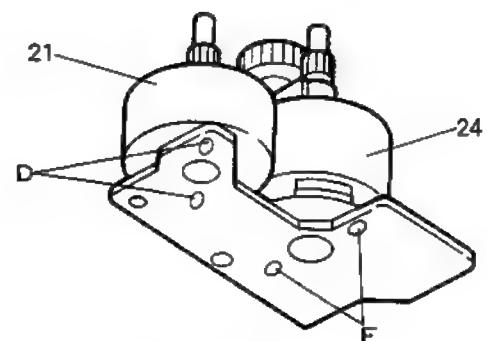


Fig. 7-28

■ Head mount assembly (A) (Fig. 7-20, 7-21)

Remove three screws (13) retaining the head mount assembly (A) from the chassis base assembly.

Note: After replacing the head mount assembly, make sure to adjust the azimuth screw (46).

■ Pinch roller assembly (Fig. 7-22)

1. Expand the pawl (A) retaining the pinch roller assembly (27) on the right side in the direction of the arrow while pulling out the pinch roller assembly upwards.
2. In the same manner as above, expand the pawl retaining the pinch roller assembly (28) on the left side to remove the left pinch roller assembly. (Fig. 7-20, too)

■ Capstan motor and Flywheel (Fig. 7-24 through 7-26)

1. Place the cassette mechanism upside down to expose the bottom. (Fig. 7-24)
2. Remove three screws (37) retaining the FR bracket assembly from the chassis base. (Fig. 7-24)
3. Expand two pawls (B, C) retaining the FR bracket assembly in the direction of the arrow to remove them. (Fig. 7-24)
4. Remove the FR bracket assembly.
5. Remove two screws (34) retaining the capstan motor (32) from the FR bracket assembly. (Fig. 7-23)
6. Disengage the belt (38) and pull out the flywheels (19, 20). (Fig. 7-25, 7-26)

Note: When disengaging the belt, carefully do it not to stain it with oil, etc.

For reengaging the belt, refer to Fig. 7-26.

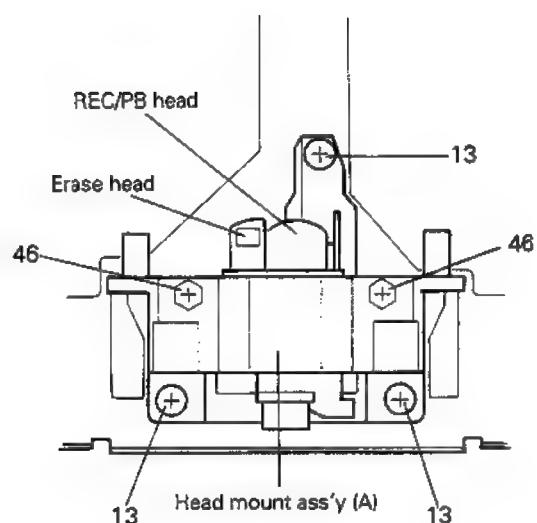


Fig. 7-21

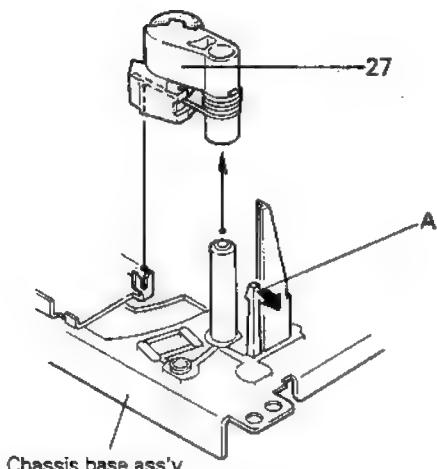


Fig. 7-22

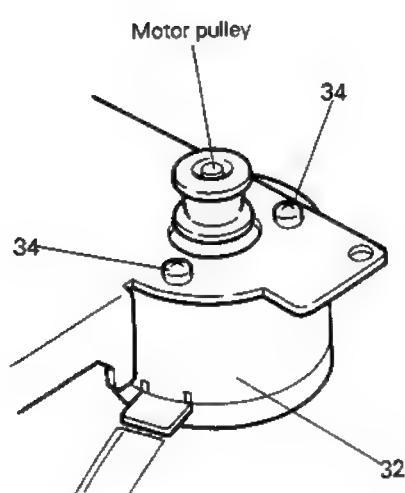


Fig. 7-24

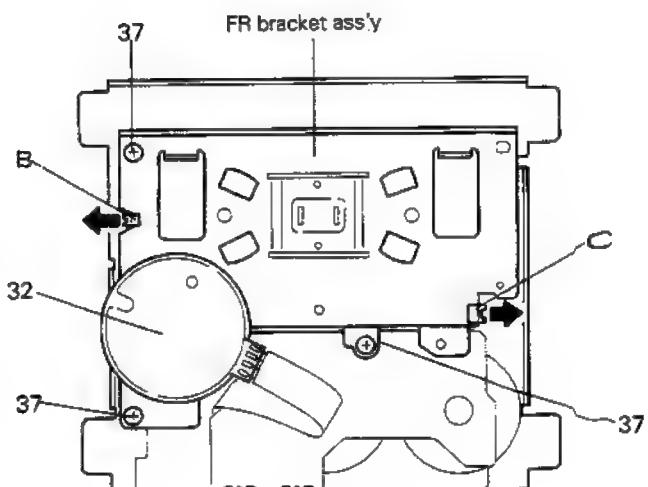


Fig. 7-23

■ Cassette Mechanism Parts List

BLOCK NO. M7MM1111

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	VKS3629-008 B MSI5B2LW-SA1 C MSN5D257A-SA1 1 VKS1126-008 2 VKS5428-008	HEAD BLOCK CAPSTAN MOTOR DC MOTOR CHASSIS B ASS'Y T-UP REEL ASSY	REF.13,45,47 REF.32,33 REF.24,25	1 1 1 1 1		
3	VKW5043-001	B.T. SPRING		1		
4	VKS3617-002	REEL		1		
5	VKW5043-001	B.T. SPRING		1		
6	VKS3627-001	PINCH LEVER		1		
7	VKS2224-001	CONTROL CAM		1		
8	VKS5454-001	ACT GEAR(2)		2		
9	VKS5455-001	ACT GEAR(3)		1		
10	VKS3655-002	F.P.C. HOLDER		1		
11	VKM3632-001	HEAD BASE	PRESS KIT S	1		
13	SDST2004Z	SCREW		3		
14	VKZ4708-001	SPECIAL SCREW		1		
16	VKS5430-008	FR ARM ASSY		1		
19	VKF3184-00H	FLYWHEEL(R)ASY		1		
20	VKF3186-00H	FLYWHEEL(L)ASY		1		
21	MMN-6F4RA38	D.C.MOTOR	FOR REEL,MOTOR	1		
22	VKS5432-001	REEL MOT. GEAR	GEAR KIT S	1		
23	VKZ4705-001	SPECIAL SCREW		2		
24	MSN-5D257A	D.C.MOTOR	FOR ACT,MOTOR K	1		
25	VKS5433-001	ACT.MOTOR GEAR	GEAR KIT S	1		
26	VKZ4705-002	SPECIAL SCREW		2		
27	VKP4227-008	PINCH R.(R) ASY		1		
28	VKP4229-008	PINCH R.(L) ASY		1		
29	VKW5045-003	P.R. SP.(R)	FOR PINCH (R)	1		
30	VKW5046-003	P.R. SP.(L)	FOR PINCH (L)	1		
31	VKY4670-001	CASSETTE SPRING	PRESS KIT S	1		
32	MSI-5B2LW	D.C.MOTOR	FOR CAP,MOTOR K	1		
33	VKR4364-002	MOTOR PULLEY		1		
34	SPSP2603Z	SCREW		2		
35	VKM3636-002	FM. BRACKET	PRESS KIT S	1		
36	VKS5327-004	THRUST PLATE		1		
37	SDSF2608Z	SCREW		3		
38	VKB3001-051	BELT		1		
39	SDST2612Z	SCREW		1		
40	VKS3616-00A	CAM SW UNIT		1		
41	DN6851-H1	HALL IC		1		
42	VKS3630-001	IC HOLDER		1		
43	VSH1170-001	CASSETTE SWITCH		4		
44	VKS3614-001	TURN OVER GEAR		1		
45	VKW5063-003	HEAD SPRING		1		
46	VKZ4629-003	SPECIAL SCREW		2		
47	VKS3654-001	HEAD MT. COVER		1		

1 2 3 4 5

■ Analytic Drawing of Cassette mechanism: Block No. M 7

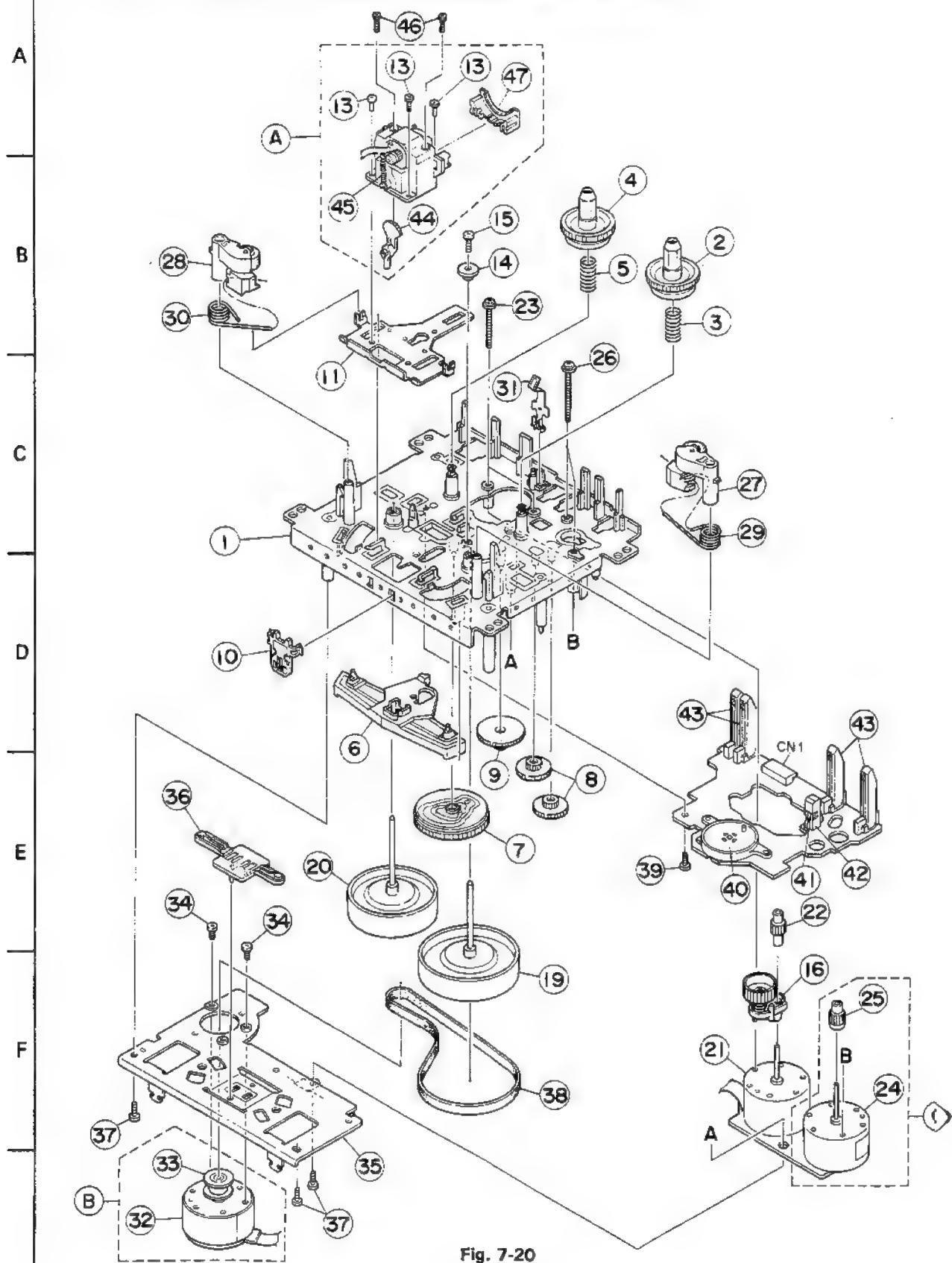


Fig. 7-20

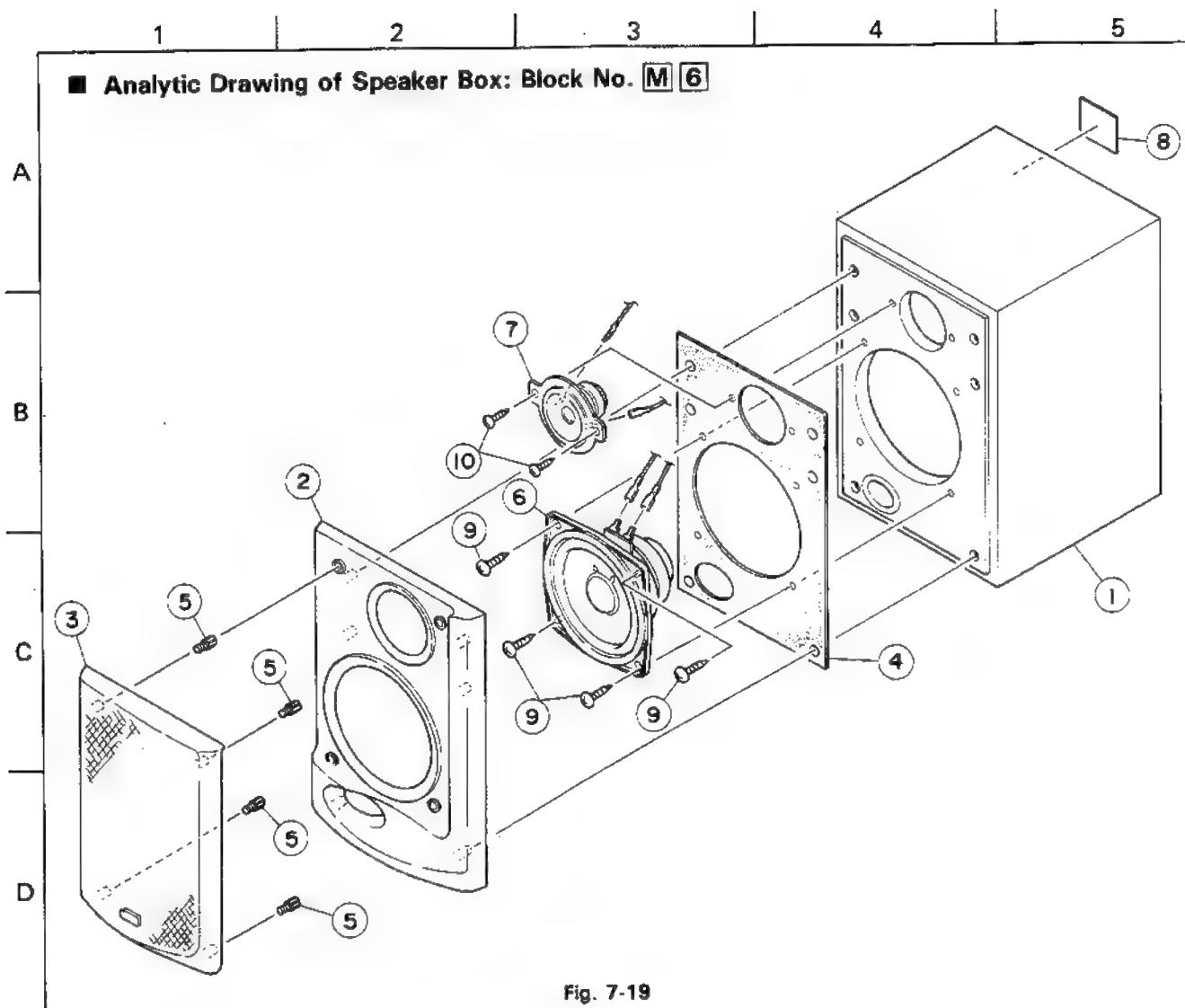


Fig. 7-19

BLOCK NO. M6MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	DH505-LUX-A4 DH505-RUX-A4	SPEAKER BOX ASY	LEFT RIGHT	1 1		
2	DH401-LUX-A4 DH401-RUX-A4	FRONT PANEL	LEFT RIGHT	1 1		
3	DH903-LUX-A4	SPEAKER NET	LEFT	1		
	DH903-RUX-A4	SPEAKER NET	RIGHT	1		
4	DH429-1UX-A4	RUBBER PACKING		1		
5	DH429-UX-A4	INSERT NUT		4		
6	VGS1201-008	SPEAKER	12CM	1		
7	VGS0501-004	SPEAKER	5CM	1		
8	DH610-UX-A4	NAME PLATE		1		
9	SDSA4014M	SCREW		4		
10	SDSA4012M	SCREW	12CM SPEAKER 5CM SPEAKER	2		

■ CD Amplifier P.C. Board: Drawing No. VMW1308, Block No. 08

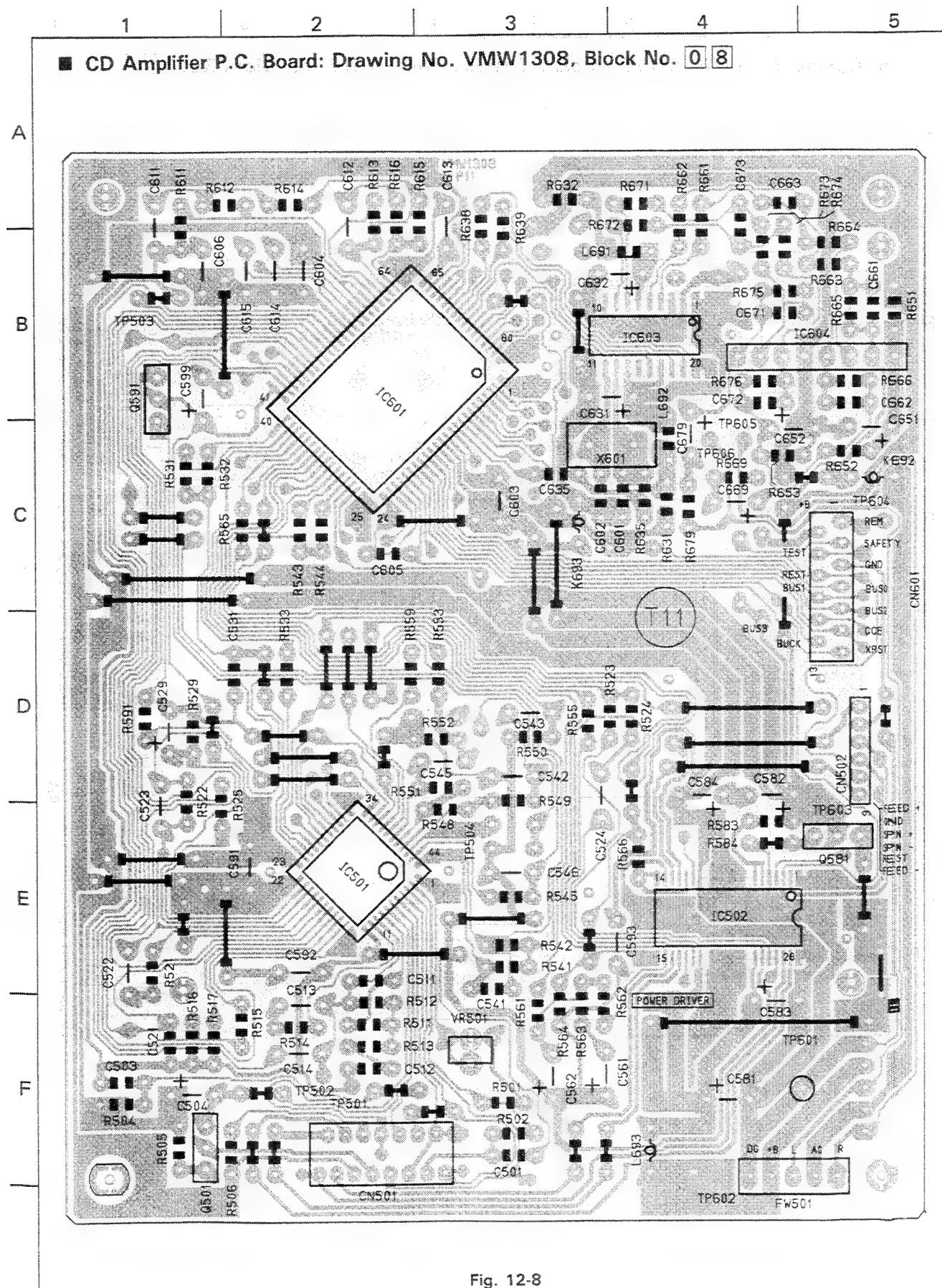


Fig. 12-8

1 2 3 4 5

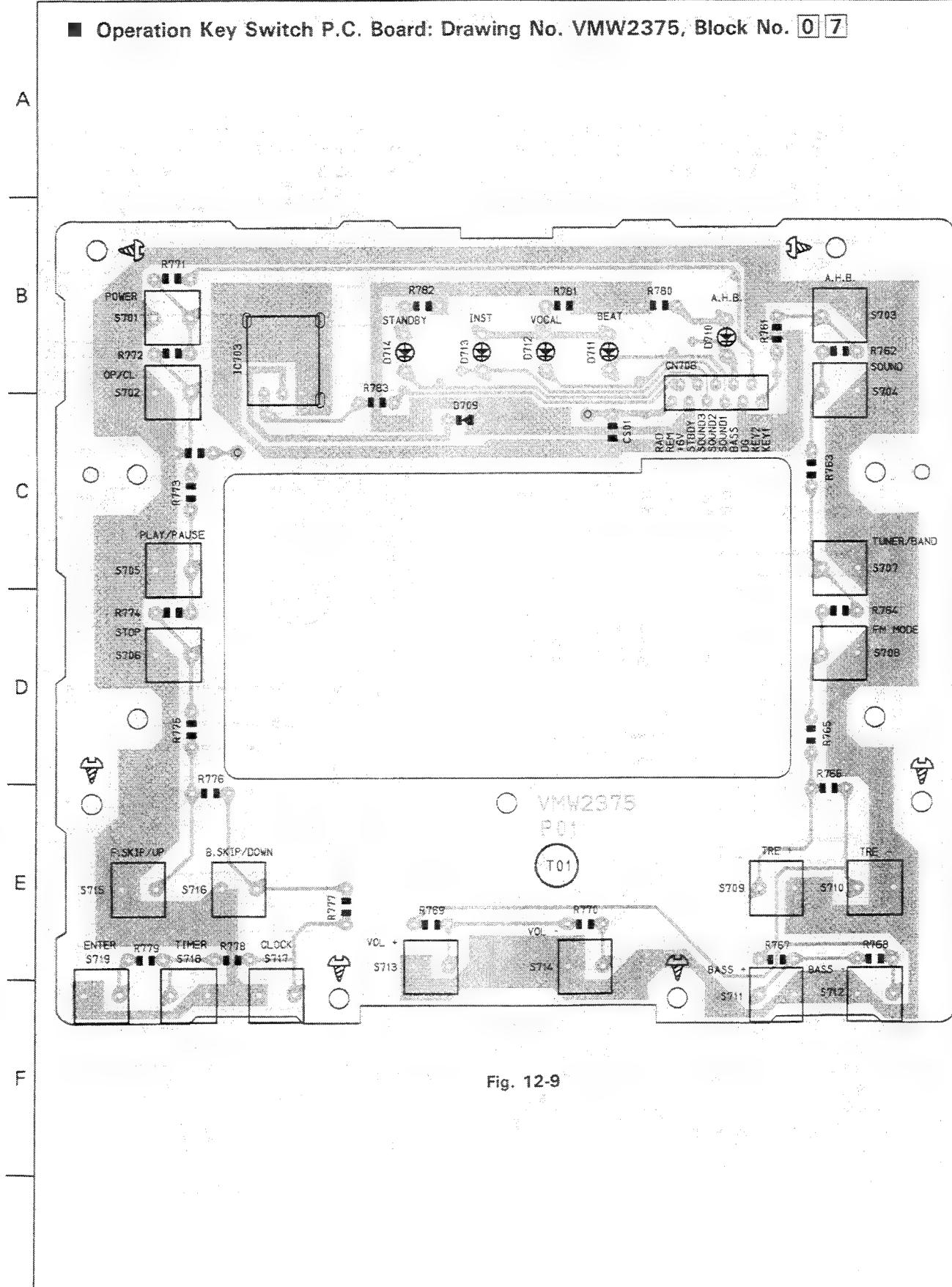


Fig. 12-9

1 2 3 4 5

■ Power Amplifier P.C. Board: Drawing No. VMW1321A, Block No. 02

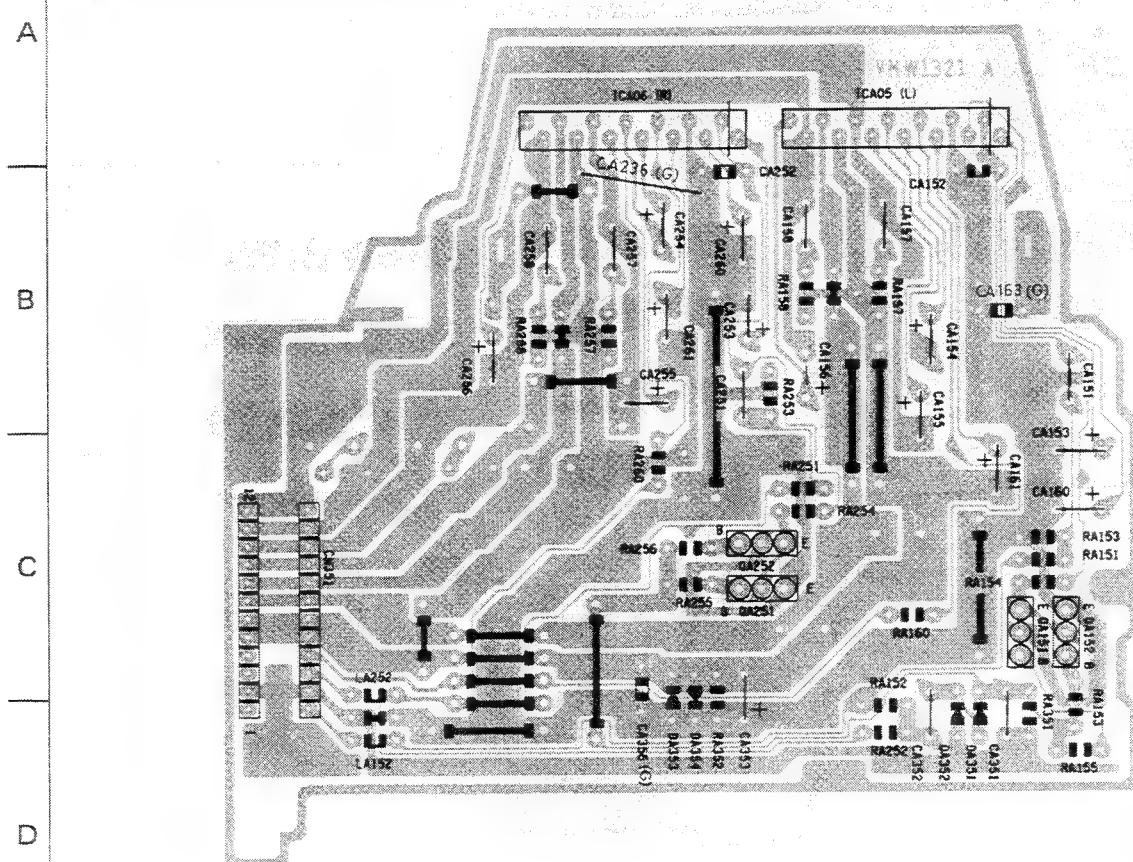


Fig. 12-10

■ Fuse P.C. Board: Drawing No. VMW1321B, Block No. 01

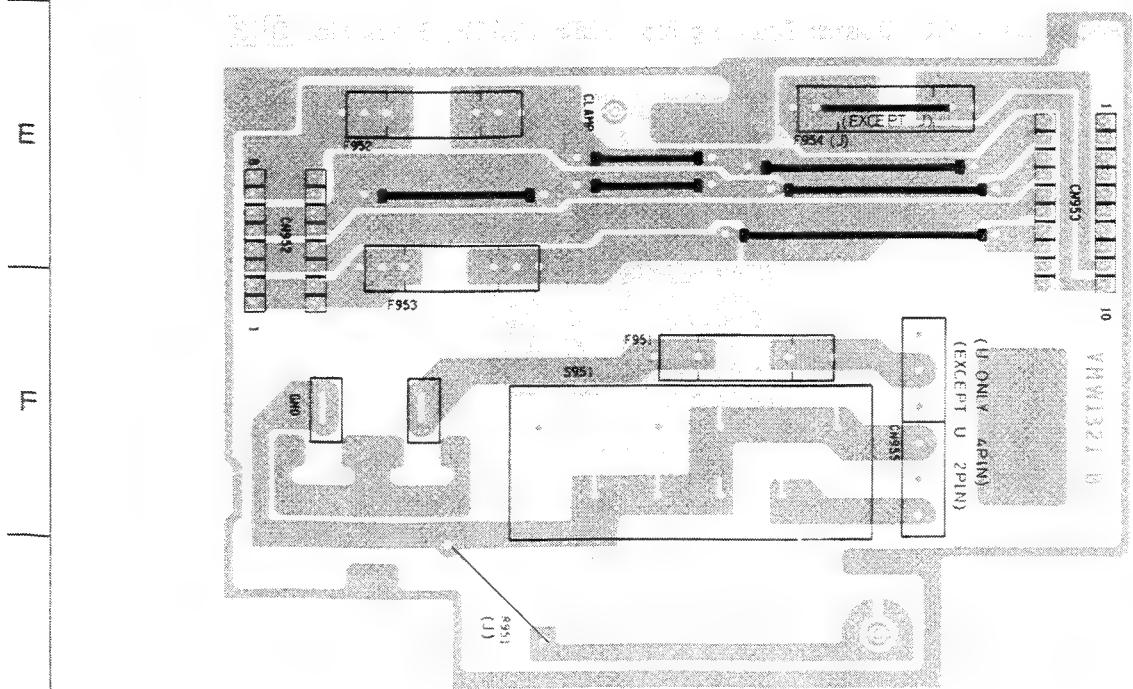


Fig. 12-11

1 2 3 4 5

■ Power Trans P.C. Board: Drawing No. VMW1321C, Block No. 0 1

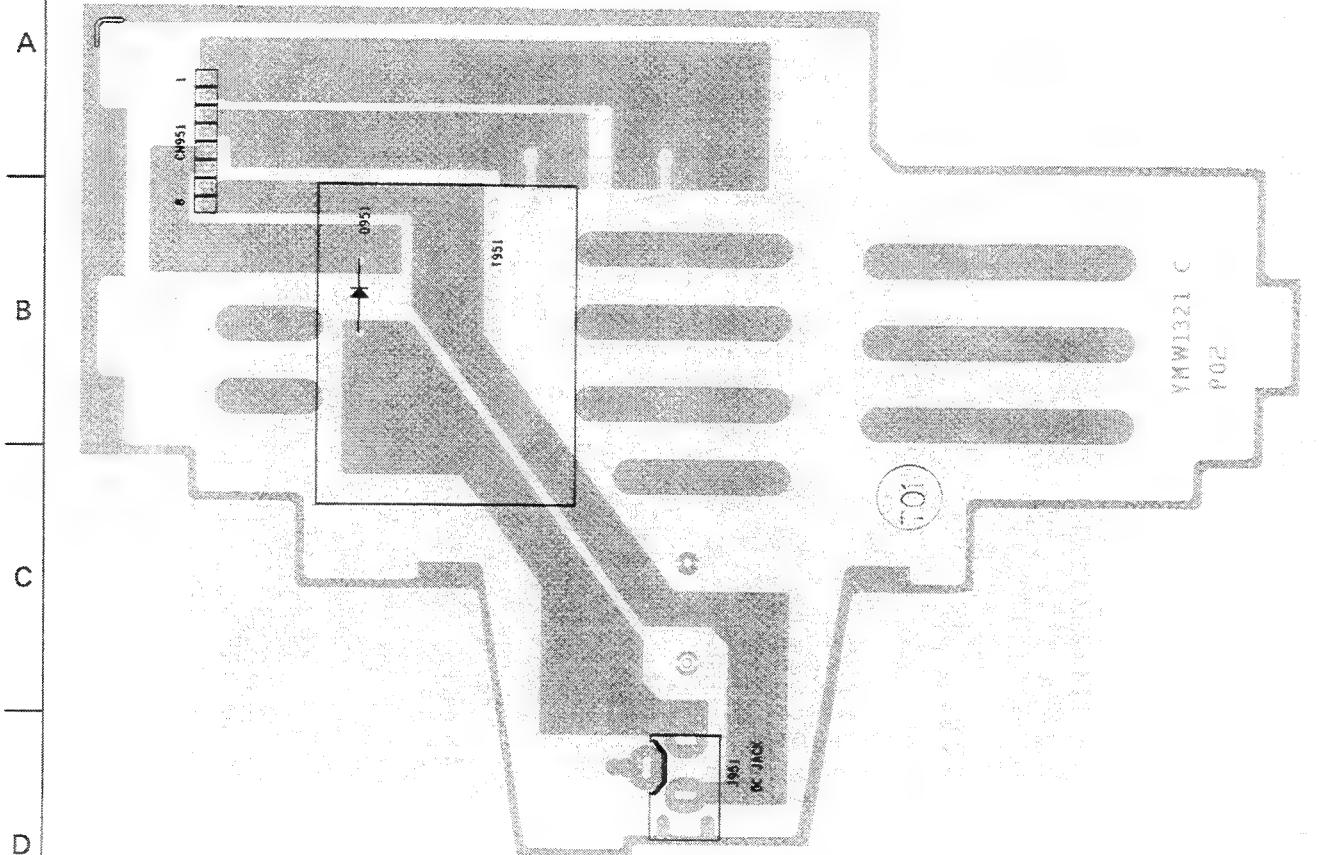


Fig. 12-12

■ Head Phone Jack P.C. Board: Drawing No. VMW1321H, Block No. 0 3

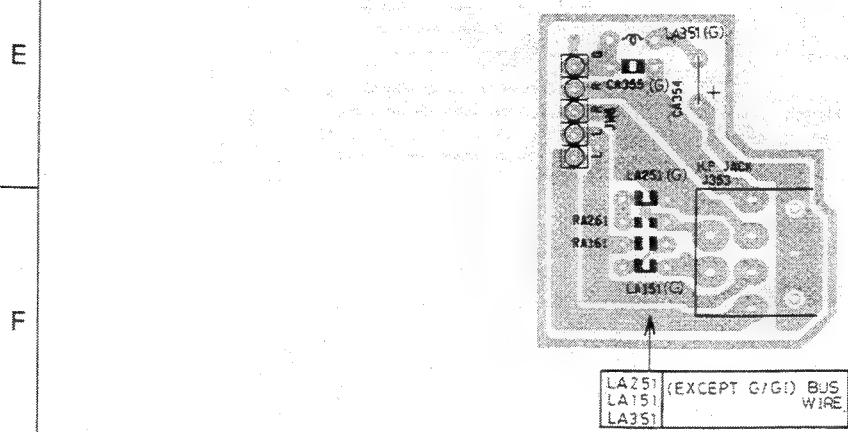


Fig. 12-13

1 2 3 4 5

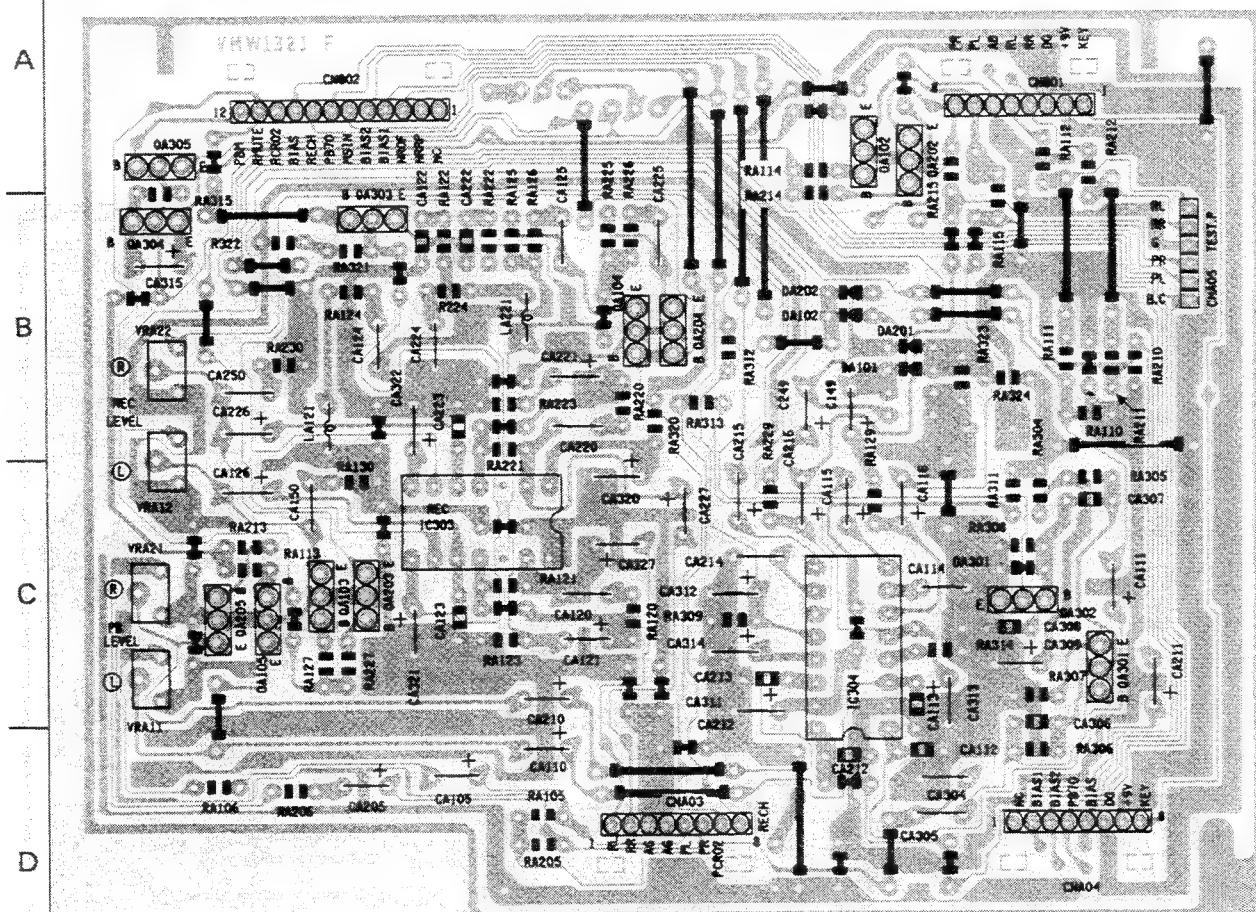


Fig. 12-14

■ Operation Key Switch P.C. Board: Drawing No. VMW1321G, Block No. 04

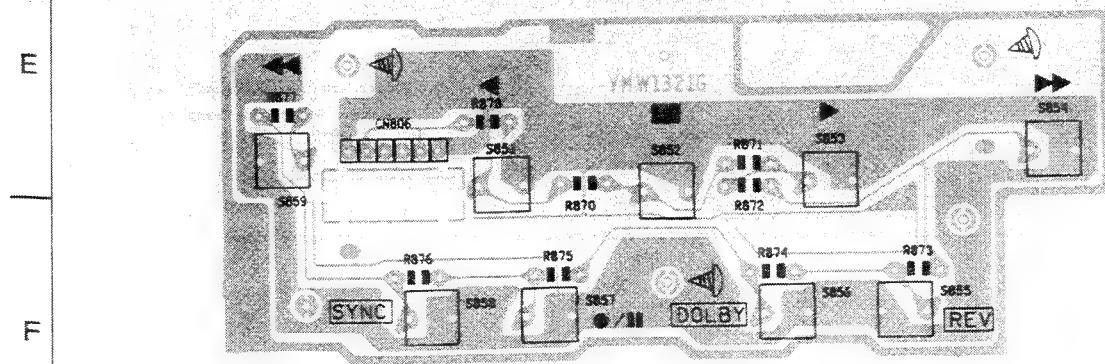


Fig. 12-15

1 2 3 4 5

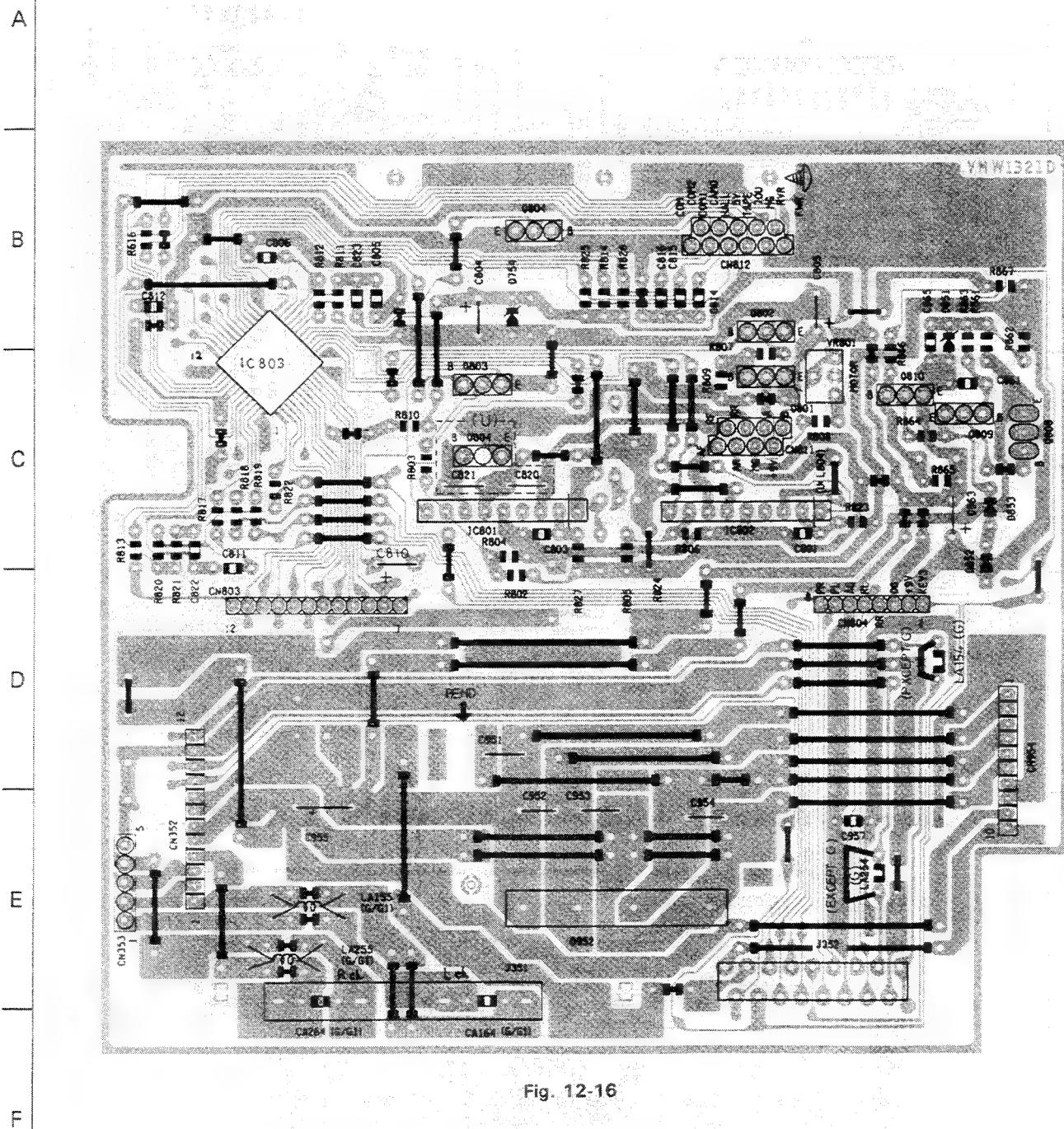


Fig. 12-16

A	REF.	PARTS NO.	PARTS NAME	REMARKS	BLOCK NO. 0411111111	SUFFIX
R1106	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R1110	QRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		
R1111	QRD161J-503Y	CARBON RESISTOR	30K 5%	1/6W		
R1112	QRD161J-243	CARBON RESISTOR	24K 5%	1/6W		
R1113	QRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W		
R1114	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R1115	QRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		
R1120	QRD161J-153	CARBON RESISTOR	15K 5%	1/6W		
R1121	QRD161J-153	CARBON RESISTOR	15K 5%	1/6W		
R1122	QRD161J-221	CARBON RESISTOR	220 5%	1/6W		
R1123	QRD161J-182	CARBON RESISTOR	1.8K 5%	1/6W		
R1124	QRD161J-331	CARBON RESISTOR	330 5%	1/6W		
R1125	QRD161J-392	CARBON RESISTOR	3.9K 5%	1/6W		
R1126	QRD161J-182	CARBON RESISTOR	1.8K 5%	1/6W		
R1127	QRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W		
R1128	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R1129	QRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		
R1130	QRD161J-122	CARBON RESISTOR	1.2K 5%	1/6W		
R1201	QRD161J-080	CARBON RESISTOR	68 5%	1/6W		
R2020	QRD161J-354	CARBON RESISTOR	350K 5%	1/6W		
R2023	QRD167J-682	CARBON RESISTOR	6.8K 5%	1/6W		
R2024	QRD167J-562	CARBON RESISTOR	5.6K 5%	1/6W		
R2025	QRD161J-122	CARBON RESISTOR	10K MS IN			
R2026	QRD161J-103	CARBON RESISTOR	1.0K 5%	1/6W		
R2120	QRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		
R2121	QRD161J-103Y	CARBON RESISTOR	30K 5%	1/6W		
R2122	QRD161J-243	CARBON RESISTOR	24K 5%	1/6W		
R2123	QRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W		
R2124	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R2125	QRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		
R2220	QRD161J-153	CARBON RESISTOR	15K 5%	1/6W		
R2221	QRD161J-153	CARBON RESISTOR	15K 5%	1/6W		
R2222	QRD161J-221	CARBON RESISTOR	220 5%	1/6W		
R2223	QRD161J-182	CARBON RESISTOR	1.8K 5%	1/6W		
R2224	QRD161J-331	CARBON RESISTOR	330 5%	1/6W		
R2225	QRD161J-192	CARBON RESISTOR	1.9K 5%	1/6W		
R2226	QRD161J-182	CARBON RESISTOR	1.8K 5%	1/6W		
R2227	QRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W		
R2228	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R2229	QRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		
R2320	QRD161J-122	CARBON RESISTOR	1.2K 5%	1/6W		
R3021	QRD161J-221	CARBON RESISTOR	220 5%	1/6W		
R3022	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R3023	QRD161J-221	CARBON RESISTOR	220 5%	1/6W		
R3024	QRD161J-331	CARBON RESISTOR	330 5%	1/6W		
R3025	QRD161J-473	CARBON RESISTOR	6.7K 5%	1/6W		
R3026	QRD161J-225	CARBON RESISTOR	2.2M 5%	1/6W		
R3027	QRD167J-121	CARBON RESISTOR	120 5%	1/6W		
R3028	QRD161J-104	CARBON RESISTOR	100K 5%	1/6W		
R3121	QRD161J-221	CARBON RESISTOR	220 5%	1/6W		
R3122	QRD161J-103	CARBON RESISTOR	10K 5%	1/6W		
R3123	QRD161J-103	CARBON RESISTOR	220 5%	1/6W		
R3124	QRD161J-183	CARBON RESISTOR	18K 5%	1/6W		
R3125	QRD161J-223	CARBON RESISTOR	220 5%	1/6W		
R3220	QRD161J-221	CARBON RESISTOR	220 5%	1/6W		

BLOCK NO. 041111					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	QA312	2SD1302(S,T)	TRANSISTOR		
	QA313	2SD1302(S,T)	TRANSISTOR		
R	803	GRD161J-582	CARBON RESISTOR	6.8K 5% 1/6W	
R	804	GRD161J-432	CARBON RESISTOR	4.3K 5% 1/6W	
R	805	GRD161J-183	CARBON RESISTOR	68K 5% 1/6W	
R	806	GRD161J-503	CARBON RESISTOR	18K 5% 1/6W	
R	807	GRD161J-472	CARBON RESISTOR	20K 5% 1/6W	
R	808	GRD161J-222	CARBON RESISTOR	6.7K 5% 1/6W	
R	809	GRD161J-773	CARBON RESISTOR	8.2K 5% 1/6W	
R	810	GRD161J-703	CARBON RESISTOR	10K 5% 1/6W	
R	811	GRD161J-584	CARBON RESISTOR	680K 5% 1/6W	
R	812	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R	813	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	814	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	816	GRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R	817	GRD161J-772	CARBON RESISTOR	4.7K 5% 1/6W	
R	818	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	819	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	820	GRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R	821	GRD161J-663	CARBON RESISTOR	56K 5% 1/6W	
R	822	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	823	GRD161J-151	CARBON RESISTOR	150K 5% 1/6W	
R	825	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	826	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	827	GRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R	851	GRD14CJ-100SK	CARBON RESISTOR	10 SK 1/4W	
R	852	GRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R	853	GRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R	854	GRD161J-393	CARBON RESISTOR	3.5 SK 1/6W	
R	855	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	856	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	857	GRD14CJ-101SX	UF RESISTOR	100 5% 1/4W	
R	858	GRD161J-181	CARBON RESISTOR	180 5% 1/6W	
R	861	GRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R	862	GRD161J-112	CARBON RESISTOR	1.5K 5% 1/6W	
R	863	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	864	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	865	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	866	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	867	GRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R	870	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R	871	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R	872	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	873	GRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R	874	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	875	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R	876	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	877	GRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R	878	GRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
RA101	GRD161J-680	CARBON RESISTOR	68 5% 1/6W		
RA102	GRD161J-334	CARBON RESISTOR	330K 5% 1/6W		
RA103	GRD167J-582	CARBON RESISTOR	6.8K 5% 1/6W		
RA104	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
RA105	GRD161J-222	CARBON RESISTOR	MS IN		

• LCD/Micro Computer P.C. Board

BLOCK NO. 04111111					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
RA321	GRD161J-475	CARBON RESISTOR	4.7W 5%	1/6W	
	GRD161J-475	CARBON RESISTOR	4.7M 5%	1/6W	
RA323	GRD161J-101	CARBON RESISTOR	100 5%	1/6W	
RA324	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
RA340	GRD161J-223	CARBON RESISTOR	22K 5%	1/6W	
RA341	GRD161J-152	CARBON RESISTOR	1.5K 5%	1/6W	
RA342	GRD161J-223	CARBON RESISTOR	22K 5%	1/6W	
RA343	GRD161J-152	CARBON RESISTOR	1.5K 5%	1/6W	
S 851	QSQ1A11-V042	TACT SW	REV		
S 852	QSQ1A11-V042	TACT SW	REV		
S 853	QSQ1A11-V042	TACT SW	STOP		
S 854	QSQ1A11-V042	TACT SW	FWD		
S 855	QSQ1A11-V042	TACT SW	FF		
S 856	QSQ1A11-V042	TACT SW	REV.MODE		
S 857	QSQ1A11-V042	TACT SW	DOLBY		
S 858	QSQ1A11-V042	TACT SW	REC		
S 859	QSQ1A11-V042	TACT SW	SYNCHRO		
VRA11	QUPA603-502AZM	SEMI.V.RESISTOR	PB LEVEL		
VRA12	QUPA603-502AZM	SEMI.V.RESISTOR	REC LEVEL		
VRA13	QUPA603-503A	V RESISTOR	REC LEVEL		
VRA21	QUPA603-502AZM	SEMI.V.RESISTOR	PB LEVEL		
VRA22	QUPA603-502AZM	SEMI.V.RESISTOR	REC LEVEL		
VRA23	QUPA603-503A	V RESISTOR	BIAS LEVEL		
VR801	QVZ3523-103AZ	V RESISTOR	TAPE SPEED ADJ.		

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	701	QCS11HJ-270	C. CAPACITOR	27PF 5X 50V	
C	702	QCS11HJ-330	C. CAPACITOR	33PF 5X 50V	
C	703	QCS11HJ-470	C. CAPACITOR	47PF 5X 50V	
C	704	QCS11HJ-560	C. CAPACITOR	56PF 5X 50V	
C	705	QCS11HJ-330	C. CAPACITOR	33PF 5X 50V	
C	706	QCS11HJ-330	C. CAPACITOR	33PF 5X 50V	
C	707	QCXB1CM-472Y	C. CAPACITOR	4700PF 20% 16V	
C	708	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	709	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	710	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	711	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	712	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	713	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	714	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	715	QETC1HM-3552N	E. CAPACITOR	VOL PWM	
C	730	QETC1CM-1062N	E. CAPACITOR	10MF 20% 16V	
C	731	QETC1HM-1052N	E. CAPACITOR	1.0MF 20% 50V	
C	732	QETC1AM-1072N	E. CAPACITOR	100MF 20% 10V	
C	733	QETC1CM-1062N	E. CAPACITOR	10MF 20% 16V	
C	734	QETC1CM-1062N	E. CAPACITOR	10MF 20% 16V	
C	735	QETC1CM-1062N	E. CAPACITOR	10MF 20% 16V	
C	736	QETC1CM-1062N	E. CAPACITOR	10MF 20% 16V	
C	740	VCE0056-4792	SUPER CAP.		
C	741	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	742	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C	743	QCBB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
CN	701	VMCO163-011	CONNECTOR	FOR KEY	
CN	702	VMCO163-013	CONNECTOR	FOR FUNC. 1	
CN	703	VMCO163-R13	CONNECTOR	FOR FUNC. 2	
CN	704	VMCO041-006	CONNECTOR	FOR CD DOOR	
CN	705	VMCO107-R05	SOCKET	FOR CD	
CN	706	VMCO163-009	CONNECTOR	FOR CD BUS	
CST01		QETC1CM-062N	E. CAPACITOR	10MF 20% 16V	
CST02		QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
D	701	ISS133	SI. DIODE		
D	708	ISS133	SI. DIODE		
D	715	MT25.1JB	2-D10DE		
D	716	ISS133	SI. DIODE		
D	717	ISS133	SI. DIODE		
DS701		MA700	ZENER DIODE		
DS702		MT25.1JC	Z DIODE		
ICM01		MN171603.JB	IC	UCOM(CCTL)	
IC701		MN171603.JB	IC	UCOM(CCTL)	
IC702		BA6208A	IC	CD DOOR	
L	701	VQZ004B-009	INDUCTOR		
L	702	VQP0018-R87	INDUCTOR		
L	708	VQP0028-A002	INDUCTOR		
PL	01	VGZ0001-057	P-LAMP	BACK LIGHT	
PL	02	VGZ0001-057	P-LAMP		
Q	701	ZSC26668(CD)	TRANSISTOR		
Q	702	ZSC26668(CD)	TRANSISTOR		
Q	703	DC114TS	TRANSISTOR		
Q	704	2SA1175	TRANSISTOR		
Q	711	DC124ES	TRANSISTOR		
Q	712	ZSC2785(CFEE)	TRANSISTOR		

BLOCK NO. 05				BLOCK NO. 05	PARTS NAME	PARTS NO.	REF.	A
				SUFFIX	REMARKS			
R 702	GRD161J-681	TRANSISTOR	CD SN		CARBON RESISTOR 680 5% 1/6W	R 752 QRD161J-223	R 752	
R 703	GRD161J-681	TRANSISTOR			CARBON RESISTOR 22K 5% 1/6W	R 753 QRD161J-223	R 753	
R 714	DTC124ES	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 755 QRD161J-222	R 755	
R 715	DTC124ES	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 756 QRD161J-222	R 756	
R 716	DTC124ES	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 757 QRD161J-222	R 757	
QST01	2SB772(Q,P)	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 758 QRD161J-772	R 758	
QST03	ZSC2785(HFE)	TRANSISTOR			CARBON RESISTOR 2.7K 5% 1/6W	R 759 QRD167J-87	R 759	
R 707	GRD161J-103	CARBON RESISTOR 680 5% 1/6W			CARBON RESISTOR 4.7 5% 1/6W	R 760 QRD161J-333	R 760	VUL PWM
R 708	GRD161J-103	CARBON RESISTOR 220K 5% 1/6W			CARBON RESISTOR 180 5% 1/6W	R 784 QRD161J-181	R 784	
R 709	GRD161J-222	CARBON RESISTOR 330 5% 1/6W			CARBON RESISTOR 8.2K 5% 1/6W	R 787 QRD161J-832	R 787	
R 710	GRD161J-222	CARBON RESISTOR 10K 5% 1/6W			CARBON RESISTOR 8.2K 5% 1/6W	R 788 QRD161J-832	R 788	
R 711	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 6.8K 5% 1/6W	R 789 QRD167J-682	R 789	
R 712	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 6.8K 5% 1/6W	R 790 QRD167J-682	R 790	
R 713	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 6.8K 5% 1/6W	R 791 QRD167J-682	R 791	
R 714	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 6.8K 5% 1/6W	R 792 QRD161J-273	R 792	
R 715	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 6.8K 5% 1/6W	R 793 QRD161J-683	R 793	
R 716	GRD161J-223	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 6.8K 5% 1/6W	R 794 QRD161J-103	R 794	
R 717	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	R 795 QRD161J-222	R 795	
R 718	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 2.2K 5% 1/6W	R 796 QRD161J-222	R 796	
R 719	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 2.2K 5% 1/6W	R 797 QRD161J-222	R 797	
R 720	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 2.2K 5% 1/6W	R 798 QRD161J-222	R 798	
R 721	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 2.2K 5% 1/6W	R 799 QRD161J-472	R 799	
R 722	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	RD701 QRD161J-103	RD701	
R 723	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	RD702 QRD161J-103	RD702	
R 724	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	RS705 QRD161J-103	RS705	
R 725	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	RS706 QRD161J-103	RS706	
R 726	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	RS707 QRD161J-221	RS707	
R 727	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 10K 5% 1/6W	X 701 VCI5000-001	X 701	CRYSTAL
R 728	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 220 5% 1/6W	X 702 CSAY.19MG933	X 702	CERA LOCK

BLOCK NO. 05				BLOCK NO. 05	PARTS NAME	PARTS NO.	REF.	A
				SUFFIX	REMARKS			
Q 713	DTC124ES	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 737 QRD161J-821	R 737	
Q 714	DTC124ES	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 738 QRD161J-103	R 738	
Q 715	DTC124ES	TRANSISTOR			CARBON RESISTOR 2.2K 5% 1/6W	R 739 QRD161J-103	R 739	
Q 716	DTC124ES	TRANSISTOR			CARBON RESISTOR 1.8K 5% 1/6W	R 740 QRD161J-221	R 740	
QST01	2SB772(Q,P)	TRANSISTOR	CD SN		CARBON RESISTOR 2.2K 5% 1/6W	R 741 QRD161J-103	R 741	
QST03	ZSC2785(HFE)	TRANSISTOR			CARBON RESISTOR 1.8K 5% 1/6W	R 742 QRD161J-103	R 742	
R 702	GRD161J-681	CARBON RESISTOR 680 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 743 QRD161J-103	R 743	
R 703	GRD161J-681	CARBON RESISTOR 220K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 744 QRD161J-103	R 744	
R 705	GRD161J-224	CARBON RESISTOR 330 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 745 QRD161J-103	R 745	
R 706	GRD161J-331	CARBON RESISTOR 10K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 746 QRD161J-103	R 746	
R 707	GRD161J-103	CARBON RESISTOR 1.8K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 747 QRD161J-221	R 747	
R 708	GRD161J-103	CARBON RESISTOR 1.8K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 748 QRD161J-103	R 748	
R 709	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 749 QRD161J-183	R 749	
R 710	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 750 QRD161J-473	R 750	
R 711	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W			CARBON RESISTOR 1.8K 5% 1/6W	R 751 QRD161J-913	R 751	CLOSE

• Function P.C. Board

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. <u>04111111</u>
CF 01	QEK41CM-475	E. CAPACITOR	4.7MF 20X 25V		
CF 02	QEK41CM-476	E. CAPACITOR	4.7MF 20X 16V		
CF 03	QEK41CM-336	E. CAPACITOR	3.3MF 20X 16V		
CF 04	QEK41CM-476	E. CAPACITOR	E.VOL		
CF 05	QEK41CM-476	E. CAPACITOR	E.VOL		
CF 06	QEK41CM-476	E. CAPACITOR	4.7MF 20X 16V		
CF 07	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF 08	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF 09	QCVB1CM-103Y	C. CAPACITOR	0.10MF 20X 16V		
CF 10	QCVB1CM-103Y	C. CAPACITOR	0.10MF 20X 16V		
CF 11	QEK61AM-107ZM	E. CAPACITOR	100MF 20X 10V		
CF 12	QEK41HM-225	E. CAPACITOR	2.2MF 20X 50V		
CF 13	QCBB1HK-102Y	C. CAPACITOR	1000PF 10X 50V		
CF 14	QEK41HM-225	E. CAPACITOR	2.2MF 20X 50V		
CF 15	QEK61AM-107ZM	E. CAPACITOR	100MF 20X 10V		
CF 16	QEK41CM-476	E. CAPACITOR	4.7MF 20X 16V		
CF 17	QCBB1HK-102Y	C. CAPACITOR	1000PF 10X 50V		
CF 18	QEK41CM-476	E. CAPACITOR	4.7MF 20X 16V		
CF 19	QEK41HM-105	E. CAPACITOR	VOL		
CF 20	QEK41HM-105	E. CAPACITOR	BASS		
CF 21	QEK41HM-105	E. CAPACITOR	TRE		
CF 22	QEK41CM-476	E. CAPACITOR	4.7MF 20X 16V		
CF 23	QCVB1CM-103Y	C. CAPACITOR	0.10MF 20X 16V		
CF 24	QCVB1CM-103Y	C. CAPACITOR	0.10MF 20X 16V		
CF 25	QEK41CM-476	E. CAPACITOR	4.7MF 20X 16V		
CF101	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF102	QEK41CM-106	E. CAPACITOR	1.0MF 20X 16V		
CF103	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF104	QCBB1HK-151Y	C. CAPACITOR	E.VOL		
CF105	QCXB1CM-472Y	C. CAPACITOR	4700PF 20X 16V		
CF106	QFV81HJ-473	TF CAPACITOR	0.047MF 5% 50V		
CF107	QFV11HJ-154ZM	TF CAPACITOR	0.15MF 5% 50V		
CF108	QFV41HJ-104	TF CAPACITOR	E.VOL		
CF109	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF110	QFV11HJ-393AZM	TF CAPACITOR	0.039MF 5% 50V		
CF111	QEK41HM-105	E. CAPACITOR	0.047MF 5% 50V		
CF112	QCBB1HK-331Y	C. CAPACITOR	3.30PF 10% 50V		
CF113	QEK41CM-226	E. CAPACITOR	2.2MF 20X 16V		
CF114	QFV11HJ-563AZM	TF CAPACITOR	0.056MF 5% 50V		
CF115	QFV41HJ-823	TF CAPACITOR	0.082MF 5% 50V		
CF116	QCBB1HK-151Y	C. CAPACITOR	150PF 10X 50V		
CF117	QCS11HJ-330	C. CAPACITOR	3.3PF 5% 50V		
CF201	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF202	QEK41CM-106	E. CAPACITOR	1.0MF 20X 16V		
CF203	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF204	QCBB1HK-151Y	C. CAPACITOR	E.VOL		
CF205	QCXB1CM-472Y	C. CAPACITOR	4700PF 20X 16V		
CF206	QFV81HJ-473	TF CAPACITOR	0.047MF 5% 50V		
CF207	QFV11HJ-154ZM	TF CAPACITOR	0.15MF 5% 50V		
CF208	QFV41HJ-104	TF CAPACITOR	E.VOL		
CF209	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF210	QFV11HJ-393AZM	TF CAPACITOR	0.039MF 5% 50V		
CF211	QEK41HM-105	E. CAPACITOR	1.0MF 20X 50V		
CF212	QCBB1HK-331Y	C. CAPACITOR	3.30PF 10X 50V		
CF213	QEK41CM-226	E. CAPACITOR	2.2MF 20X 16V		

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. <u>04111111</u>
CF 214	QFV11HJ-563AZM	TF CAPACITOR	.056MF 5% 50V		
CF 215	QFV41HJ-823	TF CAPACITOR	.082MF 5% 50V		
CF 216	QCBB1HK-151Y	C. CAPACITOR	150PF 10X 50V		
CF 217	QCS11HJ-330	C. CONNECTOR	33PF 5% 50V		
CFN01	VMC0163-R13	CONNECTOR	FOR UCOM.1		
CFN02	VMC0163-R13	CONNECTOR	FOR UCOM.2		
DF 01	MA165	SI DIODE			
DF 02	MA165	SI DIODE			
DF 03	MA165	SI DIODE			
DF 04	MT15.6JA	Z.DIODE			
DF 05	MA165	SI DIODE			
DF 06	MA165	SI DIODE			
DF 07	MA165	SI DIODE			
DF 08	M178.2JC	Z.DIODE			
DF 09	M17J.6.2B	Z.DIODE			
DF 10	MA165	SI DIODE			
DF 11	MA165	SI DIODE			
ICF01	VC580L	IC			
ICF02	TA8184P	IC			
ICF03	VC580L	IC			
ICF04	VC4820LD	IC			
LF 01	VPD025K-4R7V	INDUCTOR			
QF 01	UN4111	TRANSISTOR	MUTE.D		
QF 02	2SB62(C)	TRANSISTOR	US6V		
QF 03	2SC2785(HFE)	TRANSISTOR	US6V		
QF 04	UN411E	TRANSISTOR			
QF 05	2SA1129 (K)	TRANSISTOR			
QF 06	2SC2785 (HFE)	TRANSISTOR			
QF 07	2SD1302(S-T)	TRANSISTOR			
QF 08	2SC2785 (HFE)	TRANSISTOR			
QF 09	2SD1302(S-T)	TRANSISTOR			
QF 10	2SC2785 (HFE)	TRANSISTOR			
QF 11	2SC2785 (HFE)	TRANSISTOR			
QF 12	UN4213	TRANSISTOR			
QF 13	2SD1302(P-Q)	FET	BASS 1		
QF 14	2SD1302(S-T)	FET	BASS 2		
QF 15	2SD1302(S-T)	FET	S MUTE1		
QF 16	2SD1302(S-T)	FET	S MUTE2		
QF 17	2SC2785 (HFE)	TRANSISTOR	S MUTE1		
QF 18	2SC2785 (HFE)	TRANSISTOR	TONE		
QF 19	2SD1302(S-T)	TRANSISTOR			
QF 20	2SD1302(S-T)	TRANSISTOR			
QF 21	2SD1302(S-T)	TRANSISTOR			
QF 22	2SD1302(S-T)	TRANSISTOR			
QF 23	2SD1302(S-T)	TRANSISTOR			
QF 24	2SD1302(S-T)	TRANSISTOR			
QF 25	2SD1302(S-T)	TRANSISTOR			
QF 26	2SD1302(S-T)	TRANSISTOR			
QF 27	2SD1302(S-T)	TRANSISTOR			
QF 28	2SD1302(S-T)	TRANSISTOR			
QF 29	2SD1302(S-T)	TRANSISTOR			
QF 30	2SD1302(S-T)	TRANSISTOR			
QF 31	2SD1302(S-T)	TRANSISTOR			
QF 32	2SD1302(S-T)	TRANSISTOR			
QF 33	2SD1302(S-T)	TRANSISTOR			
QF 34	2SD1302(S-T)	TRANSISTOR			
QF 35	2SD1302(S-T)	TRANSISTOR			
QF 36	2SD1302(S-T)	TRANSISTOR			
QF 37	2SD1302(S-T)	TRANSISTOR			
QF 38	2SD1302(S-T)	TRANSISTOR			
QF 39	2SD1302(S-T)	TRANSISTOR			
QF 40	2SD1302(S-T)	TRANSISTOR			
QF 41	2SD1302(S-T)	TRANSISTOR			
QF 42	2SD1302(S-T)	TRANSISTOR			
QF 43	2SD1302(S-T)	TRANSISTOR			
QF 44	2SD1302(S-T)	TRANSISTOR			
QF 45	2SD1302(S-T)	TRANSISTOR			
QF 46	2SD1302(S-T)	TRANSISTOR			
QF 47	2SD1302(S-T)	TRANSISTOR			
QF 48	2SD1302(S-T)	TRANSISTOR			
QF 49	2SD1302(S-T)	TRANSISTOR			
QF 50	2SD1302(S-T)	TRANSISTOR			
QF 51	2SD1302(S-T)	TRANSISTOR			
QF 52	2SD1302(S-T)	TRANSISTOR			
QF 53	2SD1302(S-T)	TRANSISTOR			
QF 54	2SD1302(S-T)	TRANSISTOR			
QF 55	2SD1302(S-T)	TRANSISTOR			
QF 56	2SD1302(S-T)	TRANSISTOR			
QF 57	2SD1302(S-T)	TRANSISTOR			
QF 58	2SD1302(S-T)	TRANSISTOR			
QF 59	2SD1302(S-T)	TRANSISTOR			
QF 60	2SD1302(S-T)	TRANSISTOR			
QF 61	2SD1302(S-T)	TRANSISTOR			
QF 62	2SD1302(S-T)	TRANSISTOR			
QF 63	2SD1302(S-T)	TRANSISTOR			
QF 64	2SD1302(S-T)	TRANSISTOR			
QF 65	2SD1302(S-T)	TRANSISTOR			
QF 66	2SD1302(S-T)	TRANSISTOR			
QF 67	2SD1302(S-T)	TRANSISTOR			
QF 68	2SD1302(S-T)	TRANSISTOR			
QF 69	2SD1302(S-T)	TRANSISTOR			
QF 70	2SD1302(S-T)	TRANSISTOR			
QF 71	2SD1302(S-T)	TRANSISTOR			
QF 72	2SD1302(S-T)	TRANSISTOR			
QF 73	2SD1302(S-T)	TRANSISTOR			
QF 74	2SD1302(S-T)	TRANSISTOR			
QF 75	2SD1302(S-T)	TRANSISTOR			
QF 76	2SD1302(S-T)	TRANSISTOR			
QF 77	2SD1302(S-T)	TRANSISTOR			
QF 78	2SD1302(S-T)	TRANSISTOR			
QF 79	2SD1302(S-T)	TRANSISTOR			
QF 80	2SD1302(S-T)	TRANSISTOR			
QF 81	2SD1302(S-T)	TRANSISTOR			
QF 82	2SD1302(S-T)	TRANSISTOR			
QF 83	2SD1302(S-T)	TRANSISTOR			
QF 84	2SD1302(S-T)	TRANSISTOR			
QF 85	2SD1302(S-T)	TRANSISTOR			
QF 86	2SD1302(S-T)	TRANSISTOR			
QF 87	2SD1302(S-T)	TRANSISTOR			
QF 88	2SD1302(S-T)	TRANSISTOR			
QF 89	2SD1302(S-T)	TRANSISTOR			
QF 90	2SD1302(S-T)	TRANSISTOR			
QF 91	2SD1302(S-T)	TRANSISTOR			
QF 92	2SD1302(S-T)	TRANSISTOR			
QF 93	2SD1302(S-T)	TRANSISTOR			
QF 94	2SD1302(S-T)	TRANSISTOR			
QF 95	2SD1302(S-T)	TRANSISTOR			
QF 96	2SD1302(S-T)	TRANSISTOR			
QF 97	2SD1302(S-T)	TRANSISTOR			
QF 98	2SD1302(S-T)	TRANSISTOR			
QF 99	2SD1302(S-T)	TRANSISTOR			
QF 100	2SD1302(S-T)	TRANSISTOR			
QF 101	2SD1302(S-T)	TRANSISTOR			
QF 102	2SD1302(S-T)	TRANSISTOR			
QF 103	2SD1302(S-T)	TRANSISTOR			
QF 104	2SD1302(S-T)	TRANSISTOR			
QF 105	2SD1302(S-T)	TRANSISTOR			
QF 106	2SD1302(S-T)	TRANSISTOR			
QF 107	2SD1302(S-T)	TRANSISTOR			
QF 108	2SD1302(S-T)	TRANSISTOR			
QF 109	2SD1302(S-T)	TRANSISTOR			
QF 110	2SD1302(S-T)	TRANSISTOR			
QF 111	2SD1302(S-T)	TRANSISTOR			
QF 112	2SD1302(S-T)	TRANSISTOR			
QF 113	2SD1302(S-T)	TRANSISTOR			
QF 114	2SD1302(S-T)	TRANSISTOR			
QF 115	2SD1302(S-T)	TRANSISTOR			
QF 116	2SD1302(S-T)	TRANSISTOR			
QF 117	2SD1302(S-T)	TRANSISTOR			
QF 118	2SD1302(S-T)	TRANSISTOR			
QF 119	2SD1302(S-T)	TRANSISTOR			
QF 120	2SD1302(S-T)	TRANSISTOR			
QF 121	2SD1302(S-T)	TRANSISTOR			
QF 122	2SD1302(S-T)	TRANSISTOR			
QF 123	2SD1302(S-T)	TRANSISTOR			
QF 124	2SD1302(S-T)	TRANSISTOR			
QF 125	2SD1302(S-T)	TRANSISTOR			
QF 126	2SD1302(S-T)	TRANSISTOR			
QF 127	2SD1302(S-T)	TRANSISTOR			
QF 128	2SD1302(S-T)	TRANSISTOR			

BLOCK NO. ⑨ ⑩ ⑪ ⑫ ⑬ ⑭					
REF.	PARTS NO.	PARTS NAME	REMARKS	PARTS NO.	PARTS NAME
					SUFFIX
Q 014	2SA933S(RS)	TRANSISTOR		TC 01	QAT3722-100M
Q 015	DTC124ES	CARBON RESISTOR	100K 5% 1/6W	TC 02	QAT3722-200M
R 001	GRD161J-104	CARBON RESISTOR	47K 5% 1/6W	TC 03	QAT3722-300M
R 002	GRD161J-473	CARBON RESISTOR	1.0K 5% 1/6W	TC 04	QAT3722-100M
R 004	GRD161J-102	CARBON RESISTOR	82K 5% 1/6W	X 001	V472124-A0
R 005	GRD161J-823	CARBON RESISTOR	100 5% 1/6W		
R 006	GRD161J-103	CARBON RESISTOR	240 5% 1/6W		
R 008	GRD161J-241	CARBON RESISTOR	1.0K 5% 1/6W		
R 009	GRD161J-102	CARBON RESISTOR	100 5% 1/6W		
R 010	GRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R 011	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 012	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 013	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 014	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 015	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 016	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 017	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 018	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 019	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 020	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 021	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 022	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 024	GRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 025	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R 027	GRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 029	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 030	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 031	GRD161J-183	CARBON RESISTOR	18K 5% 1/6W		
R 032	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
R 033	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 034	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 035	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 036	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 037	GRD161J-560	CARBON RESISTOR	56 5% 1/6W		
R 038	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
R 239	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 040	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 041	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 042	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 043	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 044	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 045	GRD161J-561	CARBON RESISTOR	560 5% 1/6W		
R 047	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
R 048	GRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 049	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 051	GRD161J-561	CARBON RESISTOR	560 5% 1/6W		
R 052	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 053	GRD161J-471	CARBON RESISTOR	470 5% 1/6W		
R 054	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 055	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 056	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
R 057	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 058	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
T 001	VAT7F12-110	1FT			
T 002	VAT7A21-107	1FT			

BLOCK NO. ⑨ ⑩ ⑪ ⑫ ⑬ ⑭					
REF.	PARTS NO.	PARTS NAME	REMARKS	PARTS NO.	PARTS NAME
					SUFFIX
Q 014	2SA933S(RS)	TRANSISTOR			
Q 015	DTC124ES	CARBON RESISTOR	100K 5% 1/6W		
R 001	GRD161J-104	CARBON RESISTOR	47K 5% 1/6W		
R 002	GRD161J-473	CARBON RESISTOR	1.0K 5% 1/6W		
R 004	GRD161J-102	CARBON RESISTOR	82K 5% 1/6W		
R 005	GRD161J-823	CARBON RESISTOR	100 5% 1/6W		
R 006	GRD161J-103	CARBON RESISTOR	240 5% 1/6W		
R 008	GRD161J-241	CARBON RESISTOR	1.0K 5% 1/6W		
R 009	GRD161J-102	CARBON RESISTOR	100 5% 1/6W		
R 010	GRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R 011	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 012	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 013	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 014	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 015	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 016	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 017	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 018	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 019	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 020	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 021	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 022	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 024	GRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 025	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R 027	GRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 029	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 030	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 031	GRD161J-183	CARBON RESISTOR	18K 5% 1/6W		
R 032	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
R 033	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 034	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 035	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 036	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 037	GRD161J-560	CARBON RESISTOR	56 5% 1/6W		
R 038	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
R 239	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 040	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 041	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 042	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 043	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 044	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 045	GRD161J-561	CARBON RESISTOR	560 5% 1/6W		
R 047	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
R 048	GRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 049	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 051	GRD161J-561	CARBON RESISTOR	560 5% 1/6W		
R 052	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 053	GRD161J-471	CARBON RESISTOR	470 5% 1/6W		
R 054	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 055	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 056	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W		
R 057	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 058	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W		
T 001	VAT7F12-110	1FT			
T 002	VAT7A21-107	1FT			

14. Illustration of Packing and Parts List

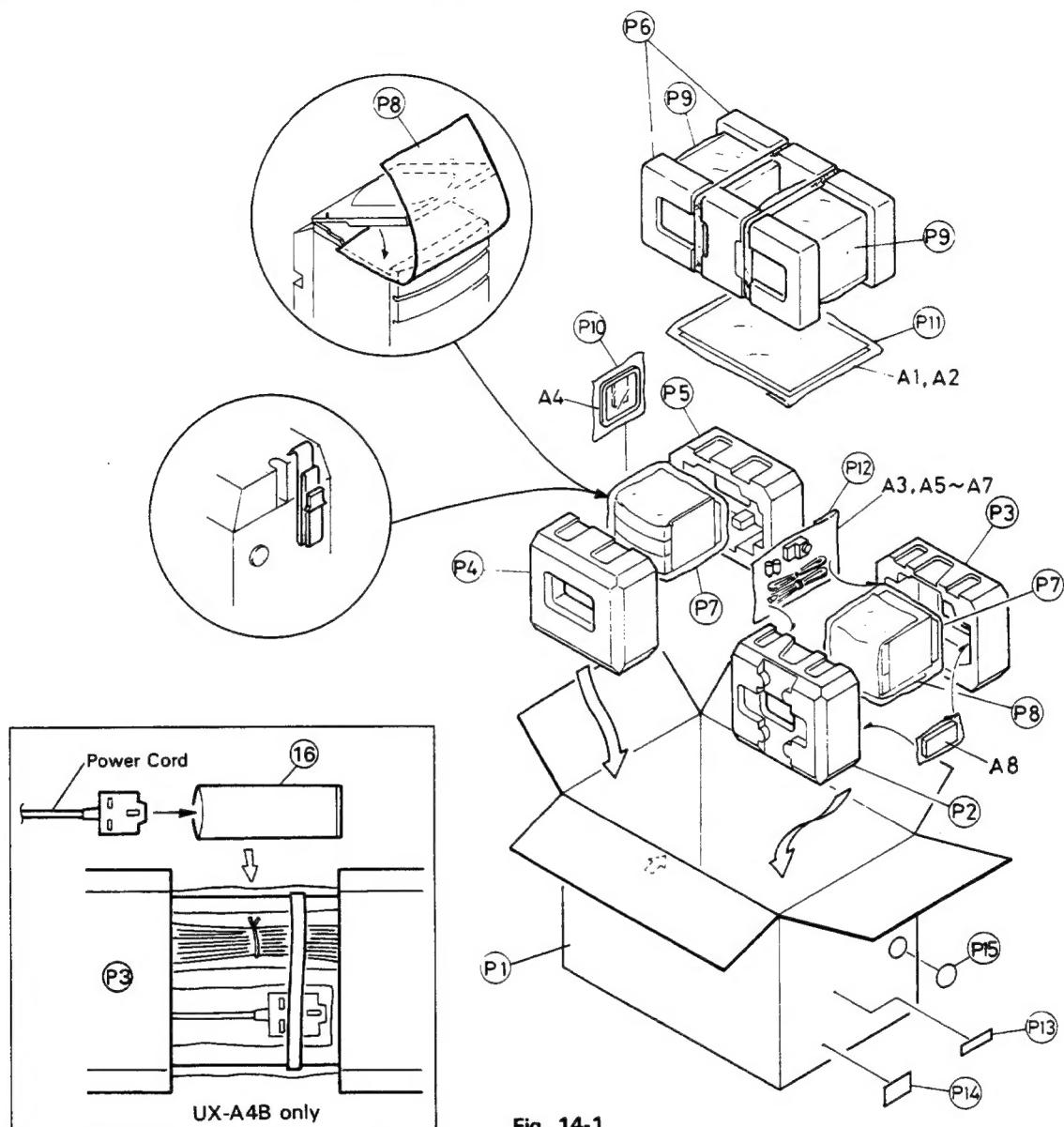


Fig. 14-1

BLOCK NO. M9MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPC9214-002	CARTON		1		
P	2	VPH1598-003	CUSHION	DECK:FRONT	1		
P	3	VPH1598-004	CUSHION	DECK:REAR	1		
P	4	VPH1599-001	CUSHION	CD:FRONT	1		
P	5	VPH1599-002	CUSHION	CD:REAR	1		
P	6	DH404-UX-A3	SIDE CUSHION	SPEAKER BOX ASY	1		
P	7	VPE3005-065	POLY BAG	300 X 510	2		
P	8	VPK4002-009	SHEET		2		
P	9	DH434-PC-X1000	POLY BAG	SPEAKER BOX ASY	2		
P	10	VPE3005-042	POLY BAG	AM LOOP ANT	1		
P	11	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
P	12	QPGAO10-03003	POLY BAG	ACCESSORIES	1		
P	13	VND3044-001	SERIAL TICKET		1	GI, EN	
P		VND3044-004	SERIAL TICKET		1	B	
P		VND3044-005	SERIAL TICKET		1	G	
P	14	VND3044-003	SERIAL TICKET		1	E	
P	15	VND3025-196	BAR CODE LABEL		1	E, B, G, GI	
P	16	QZLA001-011	GRE.POINT LABEL		1	E, G, EN	
P		QPGAO12-02505	POLY BAG	POWER CORD	1	B	

15. Accessories

BLOCK NO. MAMM1111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN9214-251S VNN9214-271S VNN9214-261S	INSTRUCTIONS INSTRUCTIONS INSTRUCTIONS		1 1 1	B, GI EN E, G, EN	
	A 2	BT-20066A BT-20135	WARRANTY CARD WARRANTY CARD		1 1	B, G G	
		BT20060 E43486-340B	WARRANTY CARD		1	B	
	A 3	EWP502-001	SAFETY SHEET		1	B	
	A 4	EQB4001-015	FM ANTENNA		1		
	A 5	VMP0093-002	AM LOOP ANT SPEAKER CORD		2		
	A 6	UM3HJ-2P	BATTERY	REMOCON	2		
	A 7	EMZ2001-014	ADAPTER		1		
	A 8	VGR0023-101	REMOCON UNIT	RM-RX1001	1		